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University goes into business

RTM paves the way from research to the marketplace

By Chris Floden

A new business established by the University of Alberta hopes to hasten the journey research takes to the marketplace.

Wednesday marked the launch of Research Technology Management Inc. (RTM), a new company wholly owned by the U of A, dedicated to helping as many as six spin-off companies a year get their feet beneath them.

It will provide early management, the marketing expertise, and the necessary seed money to make University spin-offs a success.

The time is right, says RTM Chairman John Ferguson. There is a "recent recognition that there is a greater opportunity to commercialize the research that goes on here. Universities throughout North America are having to become less dependent on government funding. Therefore, they are looking for other sources of capital, and this is one of the obvious areas we can look at."

RTM is not intended to cover the same ground as the current Industry Liaison Office. "We will work very closely with the Industry Liaison Office to identify technologies where RTM fits," says RTM President Janice Rennie. "The ILO is the broad spectrum of technology transfer for the University. They work on the licensing, the patenting, the prototyping, all of those things and some spin-off company creations. We have a very narrow focus on just a few spin-off companies."

How does the University benefit? "RTM is owned 100 per cent by the Uni-



The RTM management team: John Ferguson, Janice Rennie and Jason Randhawa.

versity of Alberta," says Rennie, "So if we maximize the value of something, that is shared through profits back to the University." She says successful spin-off companies will also continue to conduct research, hopefully in contract with the University. Finally, she says, "University professors, ...through University policies, ... will also have an ownership or a

partial ownership in some of these technologies."

The focus on technology and applied research begs the question of whether this may have some negative impact on basic research here at the University. Not so, says Rennie. Profits are "to go back to the University for their priorities, which include research." That and the continued

- RTM is funded outside of general U of A revenues with \$5 million over the next five years from private and public donations and grants.
- RTM employs four people.
- Its goal is self-sufficiency in five years.

»» quick »» facts

relationship of the University in the ongoing research of spin-off companies is seen as the insurance that basic research will not be left out.

"We are not changing the focus of research," says Rennie. From the variety of research going on here, there are bound to be great ideas that pop up. "What we're saying is, if they do pop out of here, why don't we do something with them."

Ferguson says non-traditional spin-offs may result. "I think you will be surprised where some of these companies come from. I have had discussions with the Department of Fine Arts in a couple of situations already. Brilliant people on campus can come up with all kinds of ideas of where you can create these companies from."

RTM has secured five years of funding from donations and grants specifically directed to the U of A for technology transfer and the operations of RTM. Beyond that, they will have to be self-supporting and operate on funds from the technology companies they develop.

This model comes from extensive investigation of other technology transfer programs in North America.

"The most useful knowledge we got was when they told us how they would do it differently," says Ferguson. "We think we had some of the best brainpower and experience in technology transfer in the world assisting us in creating the ideal model." ■



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Post-cuts budget still contains challenges

By Lee Elliott

The cuts are over, but the budget headaches aren't.

Vice President (Academic) Doug Oram told General Faculties Council (GFC) Monday that preliminary budget projections look challenging. "The cuts are over, but we still face the effects of those cuts...I'll be frank, we're not going to be doing much adding."

The University absorbed a \$53 million cut over three years, "then the government began to trickle money back into the system," he says.

Part of the budget challenge lies in the fact that the \$53 million was taken from the operating fund where the University determined priorities, and it's coming back in designated funding envelopes where the government determines priorities. Funding envelopes often require matching dollars as well. There could come a time, says Oram, when we'd have to turn down a grant because matching funds were needed for other projects.

The budget process is further complicated by the shift from tax-based funding to tuition-based funding and stretched by inflation. "The government does not recognize inflation as a thing to be funded," says Oram. The base grant is increasing 1.9 per cent compared to an inflation rate of roughly three per cent. Inflation along

with salary increases, at approximately the rate of inflation, is the biggest addition to expenses.

Savings from the faculty renewal program won't start to be realized for another couple of years because of equipment costs associated with new faculty. Similarly, while the fund-raising campaign is at 60 per cent of its goal, much of that money is pledged over a period of time, so the University won't fully feel the benefits for another three years. Again, donated funds are often designated.

The primary goal of this year's budget is to maintain the core functions of teaching and research, says Oram. "Overall, the teaching and research units should have the same capacity as last year."

That doesn't mean there will be no changes in funding to faculties. Informed choices will have to be made.

Factors to be considered in deciding which faculties get what include:

- Enrolment
- Quality: Evaluated with internal and external measures.

- Teaching
 - Research success
 - Strategic planning
 - Maximum use of "other" resources.
- "It's not a science, I'm not pretending it is," says Oram. "It's a judgment."

The budget process has been moved forward from its traditional start in October and began in August, says Oram. The numbers presented to GFC, then, are very rough as students may still drop out. It will be nearer December before we really know enrolment, he says. ■

KPI costs add up

By Lee Elliott

The University has no choice but to spend between \$42,000 and \$52,000 per year collecting data for performance indicators, says Doug Oram, vice-president (academic).

In answer to a question raised by the AAS:UA in June, Oram told General Faculties Council (GFC) Monday, that Maclean's, Alberta Education and Career Development (AECD) and the U of A's own internal measures all cost money.

Gathering data for the Macleans' survey costs an estimated \$17,000 to \$20,000 per year. Does Macleans pay for that data? No, says Oram. And where other universities have tried to pull out of the survey, the negative publicity has quickly changed their minds. "Whether we like it or not,

we're stuck with Macleans."

AECD gave the University a grant of \$85,000 to develop the system for KPI collection, but development costs are estimated at between \$86,000 and \$90,000. Ongoing costs are estimated at \$15,000 to \$20,000.

Internal performance measures cost least, between \$10,000 and \$12,000 for development and roughly \$1,000 ongoing expenses.

Reuben Kaufman, AAS:UA past president, said manpower costs must be added to these figures. He estimates those would equal the costs in Oram's report. "We are still dealing in a cost of somewhere around \$100,000 for data which many have said is questionable at best. "Nobody disagrees

with the concept," he says, "the issue is cost for value."

Kaufman noted that the annual budget for University Teaching Services is only \$120,000 per year. He says that should be compared to the cost of KPI data collection and this year's \$60,000 budgeted cost for administration of GFC's Teaching Evaluation Policy.

"We know the value of that body [UTS]," he says. "We're spending a significant per cent of our budget to improve teaching on stuff that's in fact quite peripheral to it."

President Rod Fraser noted the University would have put \$15 to \$16 million in jeopardy had it not invested in gathering KPI data for AECD. ■

correction

In the September 12 edition of *Folio*, we incorrectly identified soprano Linda Perillo as a University of Alberta alumna.

United Way Campaign off and running

By Chris Floden

The U of A kicks off its 1997/98 United Way Campaign September 30.

"One part of the University of Alberta mission is community service. Through giving financially, and through giving the time and energy that staff does, we support our mission," says campaign co-chair Myrna Snart.

Co-chair Terry Flannigan says he is involved because he "believes it is the best way to get money to the most needy in the community." As one of the largest employee campaigns in Edmonton, the UofA United Way campaign is vital to our city.

This year's goal is \$210,000—five per cent higher than 1996. Co-chairs Terry Flannigan, Paul Woodard and Myrna Snart are counting on the continued support of the University community to make it a success.

With the launch of the campaign, letters and pledge forms will be sent to each staff member on campus and the volunteer campaign committee will be asking for support. Payroll deductions can be arranged. With an average cost of fund raising in Edmonton at 10 per cent, most of the money donated goes directly where it is needed most.

• \$4.35 per monthly paycheck (\$52) helps the School Lunch Program provide one nutritious lunch each week for one child throughout the school year.

• \$21.70 per monthly paycheck (\$260) helps the Canadian Paraplegic Association provide adjustment counseling to a newly injured person.

• \$32.50 per monthly paycheck (\$390) provides ten months of baby formula for

Bissel Centre's Baby Support Program.

You can designate your entire gift to one (or more) specific charities on your pledge form. Any registered charity in Canada is eligible, or you can select from a list of member agencies on the back of the form. You can also direct your gift to address one of four specific community issues including poverty; families under stress; safety and freedom from violence; and dignity and independence.

The Campaign committee urges every staff member to consider participating. They say the financial support provided by the University community to our greater community is just another important example of the value of the University of Alberta to our local area and our province. ■

United Way Campaign '97

- The Campaign kicks off September 30, 9:15 a.m., in front of the Administration Building.
- This year's campaign goal is \$210,000, five per cent more than last year.
- The University hopes for 20 per cent campus participation.
- U of A leads the country in average gift size and has more Merrill Wolfe friends and leaders than any other business in Edmonton.
- This year's United Way events include the Turkey Trot (Oct. 4), the Scarecrow and Pumpkin Festival (Oct. 13) and the Super Sub Day (Nov. 7).
- United Way funds more than 100 programs in 43 agencies. You can donate to any of them.
- Lorna Hallam is this year's loaned representative. She can be reached at 8034.

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This year's United Way Campaign co-chairs Terry Flannigan, Paul Woodard, and Myrna Snart practice for the Turkey Trot with Roary, the United Way mascot.

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Hawk-eyed profs catching more cheaters

Academic offences on the rise

By Lucianna Ciccocioppo

The ink gave it away. A careful look at the red checkmarks exposed a student who tried to cheat. After all exams were returned to the class, the student filled in the answers on an exam page originally left blank. Marks were also added in red ink, the same colour the instructor used to correct the exams. The student then tried to convince the professor the marks on that page were mistakenly not recorded.

The instructor was suspicious. The ink was analyzed. The student was caught.

It's one of many cases of academic offences that occurred on campus last year and reached the discipline officer.

"It tells you how clever students are in trying to cheat but also how clever professors are in catching them," says Gretchen Hess, discipline officer.

Hess says academic offences have gone up each year since the U of A began keeping track more than three years ago.

In fact, the 1996-97 year saw the number of academic offences climb to 25, ranging from plagiarism, cheating and misrepresentation of facts. That's more than three times the number from the year before.

And these include only the cases that reach her office. Most are solved at the dean's level in each of the faculties.

It's not known why there was such an increase, whether more students are cheating or more professors are sharpening their methods of detection.

One person who has definitely changed some things is Brian Nielsen, the former discipline officer. He's basically seen all the tricks and now runs a tight ship when it comes to exam time.

"I don't want to catch people. I want to prevent it," says the physical education and recreation professor.

Nielsen says he seats students alphabetically to ensure people do not sit beside their friends. He asks for identification numbers to be printed in ink, not pencil, which can be easily erased. That way, cheaters can't plunk their student numbers down on an exam written by a star student. Nielsen also passes a list around for names. Then, with the help of lab assistants who recognize faces, he makes sure the students are who they say they are. Finally, the former discipline officer ensures he is not easily distracted when it's time for students to hand in exams.

Nielsen says many students are not aware of what constitutes an academic

offence. And when they are not sure of the answer, they ask their friends, who may give them erroneous information.

MOST STUDENTS HONEST

That's why Nielsen regularly cautions athletes, who may stress out over school, practice and game schedules, to avoid getting advice from teammates. For instance, many students do not know it is illegal to hand in the same assignment to two different classes.

"One student turned in another student for doing this," recalls Nielsen.

Some students know when to do the right thing.

"In another case, a student refused to write an exam 15 minutes before starting time after finding out what was on it," says Nielsen. "This student couldn't take the exam in good conscience. The willingness to take action on integrity was amazing."

Apparently, even some cheaters have integrity. Nielsen re-

members a student who was caught for paying another student to write an exam. It was the "mercenary" exam writer who had a guilty conscience and turned himself in. The other was expelled.

There are other methods of taking an easy way out.

And the Internet has certainly made it easier.

KNOW WHAT'S ON THE 'NET

It does not take much effort to conduct a search in any subject area and get information, articles, graphs or pictures that have yet to be published in any journal or newspaper and include them in an assignment.

Nielsen says many students feel anything on the Internet belongs in that vast realm of the "public domain" and does not have to be cited.

Not so, says Martin Kratz, a lawyer with expertise in computers and the Internet, who teaches part time in the Faculty of Law.

"Materials on the Internet are protected by copyright, and are protected to the same extent as articles in books and journals are." Students have to do more than cite the URL address. Kratz suggests downloading the information on a disk because that site may not exist in the future, if professors need to check a source.

Professors need to familiarize themselves with what's out there on the Internet, too, says Ken Munro, associate dean in the Faculty of Arts. It's a time consuming process, says Munro, but it makes it easier to catch plagiarists.

"Surprisingly, it's the old-fashioned system of cheating that's common—taking large chunks of work as their own." Munro says he sees about four or five cases of academic offences each year in his faculty.

That's about the same number in the Faculty of Science, says Graham Chambers, associate dean. Chambers says he's not sure if professors catch all the cases or simply see the tip of the iceberg.

"Students seriously underestimate how much expertise professors have in their fields," says Chambers, and that

many can easily recognize scholarly work and ideas in essays. Chambers says sometimes students are caught because of sheer bad luck, like the case of one student who plagiarized work done by a student at another university. It so happens the U of A instructor was on the graduate examining council and remembered refereeing the work.

Professors in Science, says Chambers, have to deal with a gray area of students working on assignments together. How much is too much, and where must one draw the line?

Gretchen Hess certainly knows where to draw the line.

"During my university years, (which were not at the U of A) there were some classes where everybody cheated, and others where no one dared. I want to have a university where no one dares to cheat."

Academic offences	1995-96	1996-97
Plagiarism:	2	6
Cheating:	1	12
Misrepresentation of facts:	4	7
TOTALS:	7	25

Penalties	1995-96	1996-97
Conduct probation:	0	1
Suspension under 1 year:	3	12
Suspension 1-2 years:	0	5
Suspension more than 2 years:	0	1
Expulsions:	1	3

(Note: the number of charges is greater than the number of penalties because students can be charged with more than one offence.)



The 1996-97 year saw the number of academic offences climb to 25, ranging from plagiarism, cheating and misrepresentation of facts. That's more than three times the number from the year before.

Gretchen Hess, discipline officer



Prof issues United Way challenge

By Dr. Ed Blackburn, Professor, Faculté Saint-Jean

There is one highly contagious "disease" I would like to see infect the entire University community—Infectious Habititis! Once "bitten" through contact with Habitat for Humanity, most volunteers remain life-long addicts, adherents to the principles and goals of this charitable organization and I number among them.

Habitat's mission is to make homelessness and poverty housing socially, politically and religiously unacceptable in today's world. Through a "hand-up" not a "hand-out" approach, Habitat actively works to eliminate the problem by helping those ensnared in the cycle of poverty escape its clutches.

I began volunteer work with Habitat three years ago. As a member of the Board of Directors, I am involved in the policy-making process of the organization. However, of far greater reward to me personally, is the work I do on "builds"—the construction of simple, decent housing for our partner families. It is quite a change of pace as I move from the sedentary professorial position to that of building site laborer and, more recently, building crew leader! (Were they desperate? I'm told not!)

Apart from the physical exercise most necessary to my middle-aged body, I enjoy the camaraderie as I work with people from a wealth of different backgrounds to help "our neighbors in need." Working with knowledgeable construction personnel has also taught me skills that enable me to maintain and renovate my own home.

The inner city location of the "builds" and working with Habitat's partner families to construct their future homes has sensitized me to the hopes and aspirations of those less fortunate than I. Indeed, I feel blessed by the opportunity to work alongside the hard-working parents as they strive to provide a safe haven, in which their children can live, play and learn. I truly believe that I get more out of Habitat than I give—it is a fulfilling experience.

I would like to present you with a challenge, to help a family to escape the cycle of poverty. Let's help a family by enabling the parents to provide an environment in which their children can live in safety and learn.



A volunteer crew building a house for Habitat for Humanity on the corner of 131 Avenue and 66 Street.

If each member of the University community, students and staff 30,000 strong, yearly donates the cost of two cups of coffee, two sodas or a mug of beer at the Faculty Club, we can build a house at the end of every academic year!

Yes, \$60,000 will finance a Habitat house. As an added impetus to action by staff, let me inform you that the students have formed a Campus Chapter of Habitat, the first Canadian Campus Chapter west of Ontario. They are already working on the September building site and are fund raising for Habitat! Visit their WWW site at www.ualberta.ca/~uofahfh.

Through individual and collective charitable donations, we can make a

difference and address many of society's problems. Some agencies automatically receive a percentage of your United Way donation; others only receive sums, which are designated by the donor. Habitat is one of the latter. If you wish to help eliminate poverty housing in our city,

please designate a portion of your United Way donation for use by Habitat for Humanity Edmonton.

Additional information can be obtained from Habitat's Office, 479-3566, or from myself, ed.blackburn@ualberta.ca. Please join me and make a difference. ■

what was said ...

Parks and special places at the crossroads

We need action, not philosophy, says ecologist

From a talk by Dr. Jim Butler presented to students and staff, September 18, entitled National parks in the next century: Changing trends and challenges for the new millennium. His talk was the first in the environmental seminar series organized by the TransAlta Environmental Research and Studies Centre.

We are truly at a crossroads. It could go either way. Most of us would like to think that at the end of the yellow brick road we will have reached a level of maturity where we understand something about ecosystems and the importance of their protection. What happens next is going to be extremely important.

One of the greatest problems we're facing is the accelerated rate of development and the granting of leases for public lands in Alberta. Ecologists have recognized that there has been a decline of the quality of biodiversity in the national parks. There has been a failure of our Special Places 2000 program...and throughout North America we somehow feel we should be privatizing parks. The giveaway of our public heritage is truly a misfortune of our times. We are running out of time.

We now need a commitment to act.

The spirit, on the other hand, is greater than ever before, and I think that that's part of the optimism of the future. It's important that we look for that optimism and seize the opportunities. We have to be able to see things, not as they are, but as they

should be. We can't be lost and depressed in the pessimism.

So what are signs that we have a chance? People are now using words such as "ecosystem" and "ecology"...and the concepts of variety and biodiversity are widespread. Awareness is very high. You get the feeling that people want to do the right thing, but they're not quite sure what to do or that what they're doing is going to make a difference. The feeling of getting closer to nature is very common—particularly with the baby boomer generation. People are bird watching, walking for pleasure and gardening. There's a need to be close to the natural world.

The true challenge is to teach people how to use parks. For the most part, they don't know what to see and how to look at things.

This is a time of action not philosophy. If you're waiting for divine intervention, it's probably not going to happen. It's going to happen because of you. You're going to have to get tough. It's going to require a whole number of new people who will carry new ideas into the new century. You're going to talk to people who don't care, who aren't going to want to listen, because they're caught up in the growth paradigm.

If you love the natural world you'll be motivated to protect it, you'll stay with it, you'll be dedicated to it, you'll be steward in its interest and it will be better because of you.

folio letters to the editor

Campus batons need monitoring

In a change to campus policing, security are being armed with "batons." [Folio, Aug. 29, 1997] This University has had an enviable, if not spotless, safety record, without displaying stout sticks in our halls. In most cases, our campus's security decisions excellently respected freedoms and privacy.

There have been exceptions, e.g., the VIEW questionnaire, developed for the CIA, which *The Edmonton Journal* suggested in 1996 was intimidating and inap-

propriate on a campus. The University agreed: it had withdrawn permission to use VIEW. But VIEW had been used anyway. With that history in mind, monitoring seems reasonable if the University is not to regret allowing nightsticks in its halls. Maintaining security in a campus population without foreclosing freedoms requires caution.

Dr. Bob Solomon
retired professor, English

Critical, in-depth dicussion welcomed

I was pleased to read, in *Folio* of August 29, that *Folio* was going to include more critical discussion of issues important to us all, and more pleased still to see, with the essays by Patricia Clements in that issue, and by Gordon Laxer in the issue of September 12, that you meant

what you said. Critical and in-depth discussion of issues is a direction which I, and, I am sure, many other members of the University community, appreciate.

Dr. Chris Bullock
Department of English

Becoming number one—in Aboriginal programming

By Art Beaver, Director, Native Student Services

The University of Alberta leads Canadian universities in developing Aboriginal programming.

If this headline appeared in one of Canada's daily newspapers, what would have happened to make it a reality?

Most likely, what happened was total commitment from both the University community and the corporate sector.

We've started on that road. Syncrude Canada Ltd. has made a major five-year financial contribution to encourage recruitment and retention of Native students in the fields of engineering, medicine and business. In the wake of government cuts to post-secondary education, the corporate community has realized it is necessary to provide financial assistance to develop graduates with the necessary academic skills and training to meet corporate and Aboriginal community objectives. This is the first time a large corporation has acted to increase recruitment and retention of Aboriginal people in professional training at the university level.

It is hoped that the Syncrude initiative will encourage more corporations to support development of a broad range of Aboriginal programming within a university structure. The challenge facing us will be to develop a model that will achieve both national and international distinction. As we move into the new millennium, corpo-

rations will increase global activity in indigenous territories. They will need to increasingly work with Native groups to set a new standard of business practice.

The other step in making the headline come true lies here at the University.

The U of A has already achieved some national and international recognition for its efforts at increasing the retention rate of Native students. At the second annual conference on the Retention in Education for Today's American Indian Nations held at the University of Arizona, the 1996/97 Transition Year Program was recognized for having the highest retention rate of any program—70 per cent. As a result, Native Student Services was asked to sit on an international committee that will direct research of models for increasing student retention. While the Office of Native Student Services worked directly with students, this success would not have been possible had it not been for those faculties who gave their full support.

But we need to do more. We need Native faculty, staff, and students as well as the non-Native sector to evaluate how best to implement the existing Aboriginal Student Policy because an Employment Equity Policy cannot stand alone. Certainly, faculty renewal should encourage the hiring of Aboriginal scholars; however, Education Equity must be a necessary

consideration in the development of a comprehensive Aboriginal recruitment strategy and supported by all faculties.

Individuals need to examine their opinions of Aboriginal issues to dispel misconceptions and fears about cultural awareness and sensitivity. They need not be viewed as the bogeymen endangering academic freedom. Often times cultural sensitivity is as simple as granting an extension or exam rewrite because an Aboriginal student had to go home to attend a funeral even though the deceased was not a family member.

In Native communities, we are required by custom to honor those who have passed on. It is the right thing to do. It ensures community preservation and the individual's credibility as a member of the community. Native politics dictates that preservation of the community is based on collective rights superseding those of the individual. Furthermore, cultural values such as sharing and caring are as evident today as they were when Europeans first arrived on this continent. The Native people welcomed the newcomers and assisted them through the rigors of the harsh Canadian winters. In our communities, we stop what we are doing to see to the needs of others, even when we are facing our own difficulties.

These issues of cultural differences need to be understood by faculty and staff if the retention rate for Aboriginal students is to be improved. It is neither possible nor desirable to change customs that have been with a people for centuries.

Courses that include the Aboriginal worldview are also needed. Not only would they attract Aboriginal students but Aboriginal faculty, effectively adding a diverse perspective to the knowledge base of this institution.

The Aboriginal Student Policy states:

"...the issue of access and support for Aboriginal students requires special concern because of the differences which political, historical and socio-economic circumstances have created. Certain accommodations have been made and must continue to be made in order to afford equality to those for whom opportunities for a university education have not existed in the past."

Native people will know equality when there is no longer a need for Aboriginal policy statements or Employment Equity Plans to make room for participation. With the assistance of initiatives such as the Syncrude Partnership, and the help of faculty and staff across campus, it will be Aboriginal students and their communities who will support and encourage others to follow. ■

Calgary Declaration and the dilemma of respectful recognition

By Dr. Edmund A. Aunger, Professor of Political Science, Faculté Saint-Jean

My beloved country! Why is it so difficult to recognize our differences? Why is it so difficult to respect our diversity?

Why is it so difficult to accept who we are?

One decade ago, at Meech Lake, 10 premiers and one prime minister agreed that the Canadian constitution would be amended to recognize that "Quebec constitutes within Canada a distinct society."

Further, it was declared that "the existence of French-



speaking Canadians, centred in Quebec but also present elsewhere in Canada, and English-speaking Canadians, concentrated outside Quebec but also present in Quebec, constitutes a funda-

mental characteristic of Canada." This was more than a simple statement of fact. It was a respectful expression of recognition.

The resulting debacle is well known. Some Canadians wanted similar recognition. Others feared Quebec might gain unwarranted powers. Many refused to believe Quebec was more distinct than any other province and, in any case, it was claimed, no one should get special treatment. The proffered recognition was withheld, the welcoming hand withdrawn. Quebecers reacted with hurt and disbelief. Support for independence soared to its highest levels ever.

Five years later, at Charlottetown, after widespread consultation, Canadian lead-

ers tackled the question again. This time, however, they decided to make massive changes, overhauling and modernizing the constitution. It was also proposed that "Quebec constitutes within Canada a distinct society, which includes a French-speaking majority, a unique culture and a civil law tradition." Unfortunately, many Canadians found the unwieldy package of compromises to be offensive. It was defeated.

Now, this month, nine premiers have met in Calgary and tried, once more, to untie the Gordian knot. They have valiantly addressed, yet again, the perennial issue of recognition, and their modest seven-point declaration proclaims that "the unique character of Quebec society, including its French-speaking majority, its culture and its tradition of civil law, is fundamental to the well-being of Canada." The formulation sounds very familiar, but this time "unique" has been substituted for the dreaded "distinct."

Why do we have such difficulty recognizing Quebec as a distinct society and French-Canadians as a people? The tortuous wording of the Calgary declaration reveals that this latest recognition of Quebec's uniqueness was a painful process. Like men in torment, the premiers repeatedly chant, no less than four times, the strength-restoring mantra "diversity." As in, for example: "Canada is graced by a diversity, tolerance, compassion" that is unrivalled. Thus convinced and fortified, they are finally able to acknowledge Quebec's unique character.

Then, as if to minimize the effect, and to exorcise their recognition, they obsessively reiterate their commitment to equal-

ity. Again, no less than four times. As in, for example: "All provinces, while diverse in their characteristics, have equality of status." Equality is a laudable principle. Yet, when used by the English-speaking premiers, it comes out sounding: "Forget uniqueness, we are really all the same." Diversity and distinctness are trivialized; equality and identity are glorified. Ten diverse but equal provinces? Some 85 per cent of Canada's French-speakers live in Quebec; some 96 per cent of Canada's English-speakers live outside Quebec. Le Québec n'est pas une province comme les autres.

Some Canadians, both English-speaking and French-speaking, are convinced that Quebec's secession would resolve the Canadian dilemma. Peace at last! But life is rarely that simple. Even without Quebec, Canada would still be a multinational state. French-speakers would then number "only" one million persons, and five per cent of the population; but they would continue to be Canada's largest minority. Switzerland has given constitutional recognition to an Italian-speaking minority that constitutes only five per cent of its citizenry; and Belgium to a German-speaking minority of one per cent. Should we not do as much? And, what of Canada's native peoples? Although small in number, their claim is no less justified. Nor would an independent Quebec be spared this same dilemma of recognition: its borders also contain important national minorities.

Why is respectful recognition so difficult? Many Canadians, instinctively, almost unconsciously, seek a country peopled by a single nation—speaking the same language, sharing the same culture,

embracing the same ideology. They are not opposed to diversity as long as it is limited to ethnic food, heritage festivals, and strange-sounding names. Albertans know about this. In 1892, the Territorial legislative assembly imposed English as the sole language of instruction; all other languages, with minor exceptions, were banished from the schools. This situation continued in Alberta, relatively unchanged, until 1968. Frederick Haultain justified the one-language policy, in education, government and justice, as necessary for reasons of "economy" and "equality." Most legislators were more frank: they admitted that the policy was aimed at creating "one nationality." When the province of Alberta was created in 1905, its government adhered to the same policy. Indeed, the legislative assembly subsequently passed more than 300 legislative provisions relating to language use, and the great majority of these imposed the use of English. Is this the same province that, under Premier Getty, so vociferously condemned all forms of language legislation, especially when adopted by other governments?

Yet, in spite of this, Alberta has also provided a powerful example of the true meaning of respectful recognition. A 1993 amendment to the School Act allowed for the establishment of French-language school boards and co-ordinating councils. The new school boards, first elected in 1994, are now responsible for the governance of the province's French-language schools. When sincere, respectful recognition is not empty symbolism, it leads inevitably to positive actions. Respect grants responsibility. Respect promotes diversity. Respect supports autonomy. ■

Easing the wretchedness of morning sickness

Ginger may be the key

By Lucianna Ciccocioppo

Charlotte Bronte died from it 10 months after she was married. The famed author of one of the world's greatest love stories, *Jane Eyre*, suffered from dehydration and liver damage. She starved to death.

Charlotte Bronte had morning sickness.

Today, one per cent of pregnant women is hospitalized with severe morning sickness. This may not sound like a lot, but it means about 500 women each year in Alberta cannot work, take care of their children or maintain an active social life because of severe morning sickness.

Most women, about 80 per cent and from all walks of life, suffer from some degree of morning sickness at some point in their pregnancy.

Dr. Beverly O'Brien is trying to change this and make pregnant women feel better. The former community health nurse is the principal investigator in a study looking at ways to alleviate the vomiting, nausea and retching associated with severe morning sickness.

The study is testing ginger – the hot spicy root usually found in Asian foods and crispy cookies – which a Dutch study concluded helped pregnant women. But O'Brien wanted more information, and she wants to compare the efficacy of ginger with the current, drug therapy, Diclectin.

O'Brien says more than 30 million women have used Diclectin since the 1950's and there have been no documented side effects. But because of the thalidomide scare, many women are reluctant to take the drug. And, as a result, no one knows just how well it works.

For some women, it doesn't work at all, says Canada's leading expert on morning sickness. That could be the case with ginger also.

"If ginger does help, it won't stop the morning sickness," says O'Brien. But it could make women feel more comfortable.



Dr. Beverly O'Brien

Ginger is believed to be a digestive aid in Asian cultures. Asian health practitioners prescribe three to five times the dosage used in the study to help alleviate morning sickness.

Could ginger be a natural method of easing a condition that Aristotle wrote about, that Egyptians included in their hieroglyphics and philosophers mentioned around the time of Christ?

Suggestions For Easing Morning Sickness

1. Eat small amounts of food often and slowly, even if you feel nauseous or have no appetite.
2. Eat a variety of foods. A particular food you think may help could begin to trigger nausea if you eat it too much.
3. Try sucking or smelling a fresh lemon or orange. Smell the rind.
4. Drink clear fluids. Water, weak tea, herbal teas (raspberry and peppermint), clear pop seem to help. Stay hydrated.
5. Rest by lying down and closing your eyes. Do this as often as you can.
6. Avoid stimulating your senses, especially smell.
7. Keep cool. Take a walk, apply a cold compress to your head, neck and abdomen.
8. Water can be relaxing. Take a warm bath or shower.
9. Avoid standing for long periods of time.
10. Avoid sudden changes in posture. Get up slowly from a rest position. Bend at the knees, not the waist.

O'Brien is quick to point out that some women say nothing at all helps them. In addition to the nausea and vomiting, some women live with an increased heart rate, a hypersensitivity to sensory stimulation and a despair that they'll never feel better, says O'Brien.

What O'Brien does know from her years in the field is that lying down and resting with eyes shut and no movement helps the most.

"This is something no medical or midwifery textbook has written down," says O'Brien.

Nine women have joined the study so far. It is funded by the Medical Research Council of Canada. O'Brien hopes to include 180 in the study by the time it ends in two years. ■

The power of Diana's charisma

By Lucianna Ciccocioppo

It was an event which cast a dark light on the media, while simultaneously driving up newspaper sales and broadcast ratings.

The death of Diana, Princess of Wales, has had a profound impact on people around the world. Not many people had ever met the woman. Yet, they grieved openly over her tragic end.

Why?

That's the question Dr. Ludmilla Jordanova attempted to answer when she gave the opening address at the Women and Literary History Conference, sponsored by the Orlando Project, held recently at the University of Alberta.

Jordanova is a professor of world art studies and museology at the University of East Anglia, in Essex, England.

While fascinated with the media coverage surrounding the death of the "people's princess," Jordanova saw there was no critical analysis of Diana "as a woman, as a feminine figure, [and] on the gender issues her life

and death raised" and she began to wonder why.

And by "critical," she was quick to point out, she did not "mean negative, or hostile, but thoughtful and probing." The result was a talk on the feminine charisma of Diana – historical and cultural perspectives.

Jordanova says the drive to "idolize" the woman "together with the sycophantic tone of virtually all tributes to her" is puzzling.

Diana was not a modern woman, says Jordanova but she was a powerful one.

She had charisma. "Charisma...is an exceptionally powerful force with a gendered and erotic potency that demands to be understood."

Her glamour, her humanitarian works, her experiences of "ordinary suffering," made Diana more beautiful. This "transcendent beauty" is an important factor, says Jordanova, but it is nothing new.

Throughout European history, people have believed in physiognomy – the study of interpretation of character from appearance – and have held widespread beliefs that appearances open up a window to the inner soul. Men aren't the only ones transfixed by such beauty, argues Jordanova.

"Women desire beautiful heroines quite as much, possibly more than men,

because their beauty reflects back, as it were, on the identifiers."

Closely connected to the beauty factor is the historically persistent conviction that women are "disproportionately empathetic." And it is this capacity to be so much more empathetic than men, especially where children, the sick and the dying are concerned says Jordanova, that generates physical beauty in women.

Diana had empathy, and she had it in spades. More important, she openly displayed it. It is empathy that connects people to their community, says the British historian.

The suspicious converse of this argument then, argues Jordanova, is that those who do not show their feelings, don't have any. Which is why the British press hounded the Royal family for hiding behind the cold, stone walls of Balmoral Castle after Diana's death. It "encouraged criticism, sometimes openly cruel, of those who could or did not act appropriately," says Jordanova.

Meanwhile, this ability to show her compassion made Diana a valuable commodity, particularly to charities, says Jordanova, who calls her the "goddess-saint."

Emotions, charisma and money are closely linked and even, at times, inter-

changeable. It was a role with a heavy price.

"To be an ideal, to be living for and on behalf of others is a terrible burden; it makes impossible, irreconcilable emotional demands – no human being can survive the complex forces that impact upon charismatic women."

Diana was charismatic like no man could be, argues Jordanova, even more so than President John F. Kennedy. That she has been compared to Marilyn Monroe, James Dean and Grace Kelly only serves to accentuate her star quality, but her unforgettable contributions to humanitarian causes in the eyes of her admirers place Diana in a different category, says Jordanova.

As for claims Diana's death marks a great, historical turning point, with allusions to the French revolution, Jordanova calls these notions absurd.

"The status quo has not in any way been called into question." Diana herself was not anti-establishment, argues Jordanova. Better to remember her by trying to decipher how emotions overshadow analysis and why women are the safeguards of humanitarian feelings.

"The alternative," says Jordanova, "extreme political naivete and continued idealization of feminine caring and beauty, helps no one." ■

What's in a name?

Psychology department cuts ties with eugenics proponent

By Michael Robb

They've taken the name plate off the door. The second-floor Biological Sciences Room—a comfortable room used for committee meetings, PhD orals and thesis defences—will no longer be known as the MacEachran Room. At its 69th council meeting earlier this month, the psychology department decided to rename its MacEachran Lecture Series as well and struck a committee to come up with recommendations for new names.

John M. MacEachran, for whom the room and lectures series were named, would not likely be pleased. MacEachran was, after all, a leading figure in the early history of the University of Alberta. In 1909, the well-educated young man arrived in Edmonton to help build a university. He had earned his MA in philosophy from Queen's University, went on to study in Leipzig with one of the pioneering fig-

ures of the day in experimental psychology, Wilhelm Wundt, and then conducted postdoctoral studies at the Sorbonne in Paris. His credentials were impeccable.

Last year, however, in an Edmonton courtroom a part of MacEachran's life came under intense scrutiny. Madam Justice Joanne Veit ruled that the provincial government had wrongly sterilized Leilani Muir, a woman wrongfully committed to the province's Provincial Training School for Mental Defectives.

The order to sterilize Muir was signed by MacEachran, founder of the Department of Philosophy and Psychology—and, it turns out, the chairman of the Eugenics Board from 1929 to 1965.

Muir was awarded damages and legal costs. The justice wrote:

"The damage inflicted by the operation were catastrophic...the circumstances of Ms. Muir's sterilization were so high-handed and so contemptuous of the statutory authority to effect sterilization, and were undertaken in an atmosphere that so little respected Ms. Muir's human dignity that the community's, and the court's, sense of decency is offended."

Psychology professor Dr. Douglas Wahlsten says MacEachran was inspired by a Platonic idealism that recognized a pure and perfect type of human. He may also have been influenced by the racial purity theories of Ernst Haeckel.

In a 1932 address to the United Farm Women's Association of Alberta, MacEachran said, "We allow men and women of defective intelligence or of criminal tendencies to have children.... There is one remedy for such eventualities and fortunately we have begun to make use of it in Alberta—although not yet

nearly extensively enough. This is the Alberta Sterilization Act." (see sidebar)

MacEachran was not alone in holding those views. In 1934, U of A President R.C. Wallace addressed the Canadian Medical Association annual banquet in Calgary on "the quality of the human stock." He said, "Science had done very much to raise the quality of the stock in the domesticated animals which man has reared for his services; it has done virtually nothing to raise the quality of the human stock." Emily Murphy, Tommy Douglas, Winston Churchill and others espoused similar views at times.

Wahlsten, who sponsored the motions at the department council, says, "It's important to confront our past and make our opinions public. It's clear that MacEachran taught a lot of students some very bad ideas, and it's clear he used his University position to propagate his ideas about eugenics. We have to make a clear stand," he says, pointing out that even today there are people in favor of reinstating eugenics policies.

When MacEachran retired in 1945, the tributes poured in for the Department of Philosophy and Psychology's first head and later University Provost. The University's Alumni magazine commented on MacEachran's "spirit of open-mindedness, liberalism and tolerance" and how his home was "a centre of gracious hospitality and unfailing kindness."

A few years later, after he died in 1971 at the age of 94, the Department of Psychology established a lecture series in his name. MacEachran left his possessions—furniture, artwork and papers—to the beloved academic home where he had spent his entire academic career.

He also left two different endowments. The first funds the two MacEachran Medals, one in psychology and the other in philosophy. The second endowment funds \$6,000 annually for scholarships in psychology, philosophy and education.

Acting chair of the philosophy department, Bernard Linsky, says he plans to raise the issue of MacEachran's legacy with department members at its next council meeting. ■



SEXUAL STERILIZATION ACT

The province of Alberta passed the Sexual Sterilization Act in 1928 allowing 2,832 children and adults to be sterilized by order of the Alberta Eugenics Board—a board that operated in virtual secrecy.

The province thus became the only jurisdiction in the British Empire where eugenic sterilization was vigorously practiced. The Act named four people to a board (two were nominated by the University Senate) and gave them authority to examine all inmates in provincial mental hospitals.

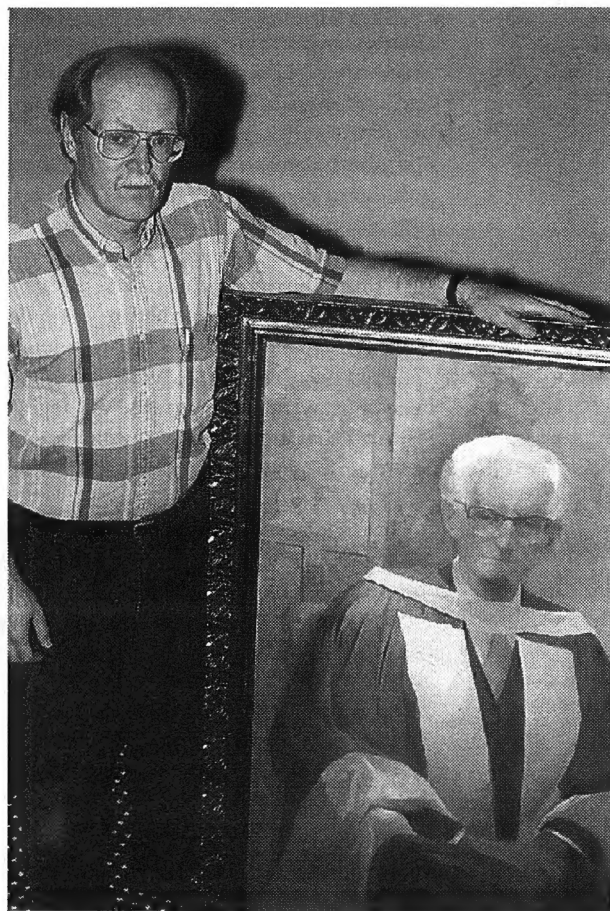
Section 5 in the Act stated:

"If upon such examination, the board is unanimously of opinion that the patient might safely be discharged if the danger of procreation with its attendant risk of multiplication of the evil by transmission of the disability to progeny were eliminated, the board may direct in writing such surgical operation for surgical operation sterilization of the inmate...and shall appoint some competent surgeon to perform the operation."

Law professor Gerald Robertson, a specialist in mental health law, has studied the board's decisions and served as an expert witness during the court proceedings. He found that very few of the Board's recommendations for sterilization were rejected.

The Act was repealed in 1972, following the defeat of the Social Credit by the Progressive Conservatives. The following year a young law student, Timothy Christian, who would later become the dean of the Faculty of Law at the U of A, wrote a paper entitled *The Mentally Ill and Human Rights in Alberta: A Study of the Alberta Sexual Sterilization Act*.

Robertson has been retained by a legal firm to serve as an expert witness in future cases of sterilization. About 700 cases are pending, he says, and the Alberta experience will likely continue to be closely scrutinized in light of the revelations of similar experiences in Sweden and Switzerland.



Psychology professor Douglas Wahlsten with a portrait of Dr. John MacEachran.

Recognizing researchers who care for their animals

By Lucianna Ciccocioppo

David Neil lives with constant conflict. The University of Alberta veterinarian keeps an eye on all the animals used in research experiments and reports back to the University Animal Policy and Welfare Committee.

"I became a veterinarian because I'm very interested in animals. I enjoy animals. I want to be a healer," says Neil.

The conflict within him first arose when he joined the army and started to work with laboratory animals.

"I was shocked. We made the animals healthy, so that we could find out why. But we also made animals unhealthy, so again, we could find out why. This is not why I went to vet school," explains Neil.

But whenever Neil questions why humans use animals in their research experiments, he comes up with this answer: "Historically, it's been very worthwhile. It has produced an enormous amount of information ... And it has improved, not only the longevity of human life, but also the quality of life," says Neil.

Yes, but is it ethical?

That's the question scientists will debate and discuss at the Louis D. Hyndman Sr. Lecture and Award event on September 30, 1997.

The award and lecture were established by the late Hyndman Sr., who had a keen interest in animal welfare. He left a grant at the U of A to highlight and award people who have given exemplary care to animals used in research on campus. Since 1994, a researcher and technician have been honored each year for contributions to improving the comfort and care of animals. They are nominated by their peers in the research community and selected by the University Animal Policy and Welfare Committee (UAPWC).

This year, researcher Douglas Scraba in the Department of Biochemistry won. Two others won in the technicians category: Paul Hansen and Jack Welch, both in the Department of Agriculture, Food and Nutritional Science.

Welch and Hansen work in the Rangeland and Wildlife Research Unit. One of their nominators wrote, "They do

not care for animals because they are told they have to, but because they are compelled to."

This nominator writes the actions of these two technicians move far beyond their required responsibilities, working extra hours and sacrificing their private lives, particularly during calving season at Kinsella and Ministik research stations.

In addition, both Welch and Hansen have adjusted the living environment for these cattle and wapiti.

Welch added a maternity pen to the main facility and a remote pen to house and treat animals. This reduces stress levels for the animals and minimizes exposure to disease for cows and newborn calves.

Hansen constructed a deer handling facility that comes with a custom designed squeeze to enable blood sampling. Furthermore, Hansen built a loadout chute that decreases the stress level when animals are being loaded for sale.

Overall, the technicians have contributed to a more comfortable environment

for animals, which makes it safer for their handlers as well.

Douglas Scraba won because he completely restructured the review process of experiments using animals, changing it to a yearly procedure. Previously, it was every three years.

Scraba decided the review should be a time to ask some tough, specific questions. It looks at the progress of the experiment, what results were obtained, how they were obtained, what the mortality rate was, whether it was higher or lower than expected and if so, why?

This way, says U of A vet Neil, the UAPWC has a clearer idea of what is happening with the animals at various stages of experimentation.

At the 1997 forum, Bernard Rollin, the first Louis D. Hyndman Sr. guest lecturer four years ago, will speak on the ethical issues surrounding cloning and xenotransplantation. Rollin is director of bioethical planning in the Department of Philosophy at Colorado State University. ■

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Prime-time Bears

U of A athletes get their own TV time-slot...

By Deborah Johnston

Tune in to CFRN Eyewitness News on Thursdays at 6:50 and 11:45 p.m.

Bear Facts, a new two-minute feature highlighting University of Alberta athletes, will air regularly in that time slot.

It's high time U of A athletes got the media recognition they deserve, says U of A sports information coordinator Dan Carle, who hosts the segment. (He should have no shortage of material with 17 teams and 400 athletes vying for the spotlight.)

"I hope to frame the experience of university sport outside of statistics," he says, "to present stories which are informative, educational, quirky, funny, endearing and most of all, real."

Carle is an old pro at sports reporting. Before coming to work at the U of A, he spent five years at the former CFGP Radio in Grande Prairie, starting at the age of 15. By 18, he was promoted to sports director and may well hold the record for having been the youngest sports director in Canada. Carle also publishes the U of A's quarterly sports magazine, *The Bear Bones*.

Making the move from print to television reporting, Carle says, is a bit like trading a football for a hockey stick. It's a completely different game. "I have a lot to learn about camera shots and cut-aways, writing to pictures and doing stand-ups. I learn as I go. Steve Hogle and Roger Millions have been tremendously supportive."

"It's great," says Hogle, CFRN Eyewitness News producer. "Dan brings a great creative talent to the show, and it's obvious he has the goods. He gives us not only an

inside perspective of the University, but a fresh face."

Hogle believes the *Bear Facts* segment will be well received in Edmonton. "I think it's a lot easier for people at home to

relate to the amateur as opposed to the pro. In almost every house, there's a kid playing amateur sports. *Bear Facts* is real grass roots, in-your-community kind of coverage." ■



Dan Carle interviews Rob Daum, Golden Bears hockey coach.



Hoopsters now own a house

All part of the plan to be self-sufficient, says coach Don Horwood

By Michael Robb

Another evening on the court, another win for the Bears. What else is new? Time to hit the showers and go home. This year, when five members of the team open the campus door to head home, it won't be a long walk.

The Bears are now homeowners in Windsor Park.

According to coach Don Horwood, the purchase of the house, only a few hundred metres from where the team practices, for about \$148,000 was a natural outgrowth of the team's fund-raising activities over the last decade.

Horwood says he's not aware of any other Canadian university that has purchased a house for athletes to live in.

The decision by the Golden Bears Basketball Foundation to purchase the house arose when Horwood and former founda-

tion president Murray Scambler discussed the possibility of buying a house in Belgravia or McKernan. Last December, a for sale sign went up on the 11606 89 Avenue property. It hadn't been lived in for over a decade and it was an estate sale. After the team bought the house, they did some renovations.

Horwood says the goal is simple—pay off the mortgage and eventually funnel annual rental income into the upkeep of the house and into the team. "We look at it as an asset which will continually increase in value."

There's a secondary reason the team bought the house. Horwood can now tell possible recruits from Ontario and British Columbia that the team has a house only minutes from the gym.

The team is recognized as a national

power on the court. Off the court it wants to be able to offer as many options to potential team members as it can. Horwood says the University has done a good job recruiting the academic elite for Bears and Pandas teams. Now, it has to find creative ways of recruiting the athletic elite, those students who aren't academic superstars and not eligible for academic scholarships.

"Major benefits accrue to a university from the profile of an academic team," he says, pointing out that there is a movement under way to open up CIAU regulations governing the extent to which universities can recruit elite athletes. "A lot of donors would give more to this university if they can be associated with successful sports teams." ■

NEW POSITIONS FOR SUPPORT STAFF ON GFC STANDING COMMITTEES

The GFC Nominating Committee requires for each of the following committees one (1) member of the support staff (Category B1.0), elected by GFC:

• GFC LIBRARY COMMITTEE

meets at 8:30 am on the first Thursday of the month

• GFC TEACHING AND LEARNING COMMITTEE

meets at 1:00 pm on the second Tuesday of the month

In brief, Category B1.0 includes continuing support staff who are members of NASA and continuing support staff who are not members of NASA. The full terms of reference and composition of the committees can be found in Sections 72 and 111 of the GFC Policy Manual (<http://www.ualberta.ca/~unisecr/tableofcontents.html>). If you have any questions regarding the committees, the category of staff and/or eligibility to serve on this committee, contact Ms Val Pemberton-Pigott (extension 1938; e-mail: val.pemberton@ualberta.ca), 2-5 University Hall.

Nominees must be both eligible and willing to serve. If you wish to submit a nomination, please forward a letter of nomination and brief biographical sketch to the above-noted address by Friday, October 24, 1997.

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The Beth Tzedek Congregation has again retained the services of Cantor Avinoam Sharon, for the High Holy Days, ushering in the New Year 5758.

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Regular Shabbat morning services are held at the Robertson-Wesley Memorial Hall, 10209-123 Street, at 9:30 A.M.

U of A to advise Thailand

By Folio staff

At the request of the Government of Thailand, the University of Alberta will provide support for the development of a new university in the northern Thai city of Chiang Rai.

Mae Fa Luang University (MFL) will offer programs in arts, science, nursing, public health, business, information technology, agricultural technology and engineering. Vice-President (Academic) Doug Owrarn signed a memorandum of understanding with the Ministry of University Affairs of the Kingdom of Thailand during a visit to Bangkok in July, following discussions between ministry officials and Terry MacKey, director of International Programs.

The U of A will offer strategic support in the overall development of the university and in the design of academic programs. Short course training will be offered in Thailand and graduate fellowships provided for MFL staff to study at the U of A. Funding for these activities will be provided by the Thai Ministry of University Affairs.

The U of A delegation attended a dinner with the Minister of University Affairs,

which was arranged by Kurt Beier, the honorary consul for Thailand in Edmonton. They also discussed graduate student recruitment and potential projects with the Office of the Civil Service Commission. ■

Ag Forestry and NAIT join forces

By Folio staff

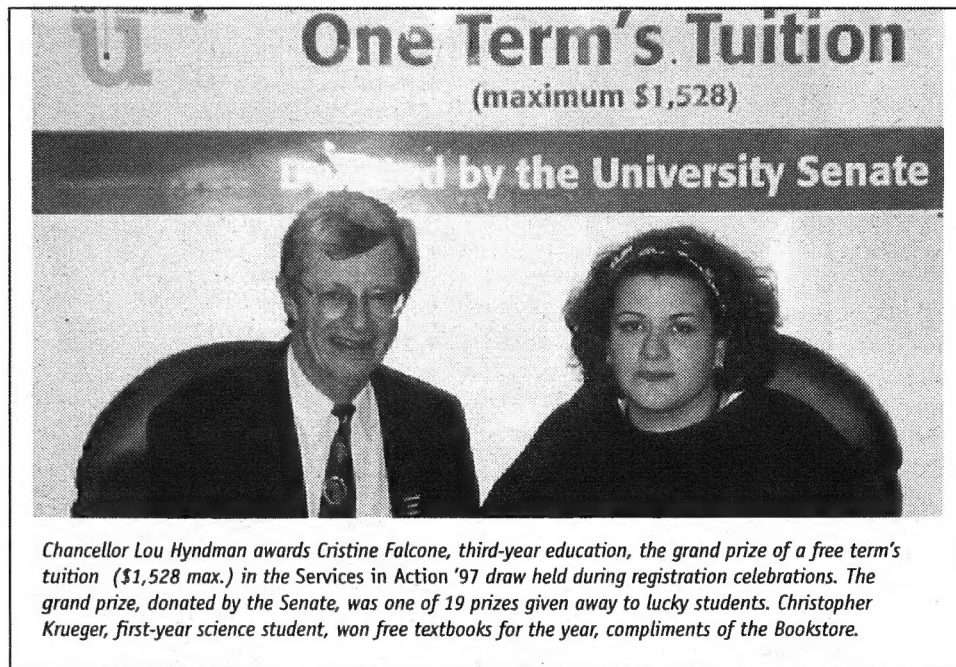
Graduates of NAIT's Food Service and Nutrition Management Program can now transfer to the University of Alberta BSc Agriculture/Food Business Management Program with a specialty in food

service with up to one-and-a-half years credit.

The BSc Food Business Management Program is offered jointly by the Faculty of Agriculture Forestry and Home Economics and the Faculty of Business. Course work includes communications, mathematics/statistics, economics, computing science and life sciences. The core program includes specialized courses in business management, including accounting, finance, marketing and human resource management. Students take additional courses in food chemistry, food microbiology, food quality, food service facilities planning and design, and food service systems management.

The two-year NAIT program, offered by its School of Business, combines a study of theory in food and beverage service, menu planning, purchasing, marketing, human resources and financial management, and nutrition with field experience through a one-term practicum.

Future collaborations are being considered as well. ■



Chancellor Lou Hyndman awards Cristine Falcone, third-year education, the grand prize of a free term's tuition (\$1,528 max.) in the Services in Action '97 draw held during registration celebrations. The grand prize, donated by the Senate, was one of 19 prizes given away to lucky students. Christopher Krueger, first-year science student, won free textbooks for the year, compliments of the Bookstore.

CAPS Career and Placement Services

the following organizations for recruiting University of Alberta students for summer, temporary, and permanent positions during 1995/1996.

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4-H Foundation of Alberta
AEC Pipelines (A Division of Alberta Energy Company Limited)
AFC Agra Services Limited
AGAT & Associates
AMS Management Systems Canada
ASSE Canada
AccuMap EnerData Corp.
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Advanced Measurements Inc.
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AgrEvo Canada Inc. (A Company of Hoechst & NOR-AM) - Calgary
AgrEvo Canada Inc. (A Company of Hoechst & NOR-AM) - Regina
Agrium - Fort Saskatchewan
Alberta Alcohol and Drug Abuse Commission (AADAC)
Alberta Asthma Centre
Alberta Boilers Safety Association
Alberta Camping Association
Alberta Cancer Board - Provincial Office
Alberta Energy Company Limited
Alberta Gymnastics Federation
Alberta Heritage Foundation for Medical Research
Alberta Hospital - Ponoka
Alberta Native Friendship Centre Association
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Beta Machinery Analysis Ltd.
Bettis Canada Ltd.
Beyond Software Inc.
Bio-Geo Dynamics Ltd.
Bissell Centre
Blue Lake Adventure Lodge

Blue Ridge Lumber (1981) Limited
Blueweed Services (A Division of D & E Kelly Corporation)
Bonnyville, Town of
Bourgault Industries Ltd.
Bowen Personnel Ltd.
Bowers Medical Supply
Boys' and Girls' Club - Camrose
Boys' and Girls' Club - Edmonton
Boys' and Girls' Club - Fort Saskatchewan
British Columbia Grain Producers Association
Broadband Networks Inc. (BNI)
Browning-Ferris Industries Ltd. (BFI)
Bruin Reforestation Limited
Buena Vista Pictures Distribution, Inc.
Buka Associates Inc.
Bullmoose Operating Corporation
Byers Transport Ltd.
CGG Geophysics Canada
CLASS.ab.ca Inc.
CRP Products & Mfg. Ltd.
CU Gas Limited
Cactus Ridge Enterprises Inc.
Calgary Board of Education
Calgary Catholic School Centre
Calgary, City of
Cambridge Bay Children's Group Home
Camp Encounter
Camp Health, Hope & Happiness
Camp Horizon
Camp Kannawin
Camp Shagabec
Camp Tamarack
Camp Warwa
Camp Wohelo (Worship, Health and Love)
Canada Life Assurance Company
Canada Mortgage and Housing Corporation
Canadian Embassy
Canadian Forest Products Ltd. - Chetwynd Division
Canadian Forest Products Ltd. - Grande Prairie Division
Canadian Forest Products Ltd. - Netherlands Division
Canadian Fracmaster Limited
Canadian Hunter Explorations Limited
Canadian Imperial Ginseng Farms Ltd.
Canadian Institute for Petroleum Industry Dev. (CIPID)
Canadian Mental Health Association
Canadian National (CN) - Edmonton
Canadian National (CN) - Montreal
Canadian Natural Resources Limited
Canadian Occidental Petroleum Company Limited
Canadian Pacific Railway Company
Canadian Paraplegic Association
Canadian Physicians for Aid and Relief (CPAR)
Canadian Plastics Industry Association
Canadian Pork Council
Canadian Red Cross Society (Blood Services)
Canadian Utilities Limited
Canadian Western Natural Gas Company Ltd. (An ATCO Company)
Canfax (A Division of the Canadian Cattlemen's Association)
Cantech Systems Ltd.
Capital Care Group, The

Capital Health, Community Care and Public Health
Captive Concepts
Cargill Foods - High River
Cargill Limited - Calgary
Cargill Limited - Winnipeg
Cariboo Chilcotin Community Skills Centre, The
Catholic Social Services - Bonnyville
Catholic Social Services - Edmonton
Cdn Assoc of Career Educators & Employers (CACEE)
Celebration of Women in the Arts
Centre d'Experience Prescolaire
Centre for Engineering Research (CFER)
Champion Technologies Ltd.
Chevron Canada Resources
Chinook Applied Research Association
Chromatographic Specialties Inc.
Chrysler Canada - Calgary
City Ford Sales Ltd.
Clark Builders (A Member of the Clark Builders Group)
Coca-Cola Bottling Ltd.
College Pro Painters - Alberta
College Pro Painters - Edmonton
Colliers Macaulay Nicolls - Calgary
Coloniale Golf & Country Club
Com-Sept Microsystems and Internet Services
Cominco Ltd. - Kimberley Operations
Cominco Ltd. - Trail Operations
Community Projects Ltd.
Computalog Limited - Edmonton
Computer Rental Centres/PC Corp.
Computer Upgrading Specialists Ltd.
Computing Devices Canada
Consumer Impact Marketing Ltd.
Consumers' Co-operative Refineries Ltd.
Costar Computer Services
Crestbrook Forest Industries Limited
Creston & District Community Complex & Recreation Commission
Criterion Research Corporation
Crown Life Insurance Company
Cyanamid Crop Protection - Calgary
DB Robinson Research Ltd.
DBCORP Information Systems, Inc.
Dairyworld Foods - Calgary
Daishowa-Marubeni International Ltd. (Peace River Pulp)
Delta Canada Limited
Danka Canada
David Thompson Health Region
Deep River Science Academy (Whiteshell Campus)
Dellavalle Corporation
Dendron Decisions Ltd.
Dinosaur Country Science Camp
Discount Travel Warehouse
Discover E Science Camps
Dow Chemical Canada, Inc. - Fort Saskatchewan
DowElanco Canada Inc. - Edmonton
Downhole Systems Technology Canada, Inc.
Draper Systems Inc.
DuPont Canada Incorporated - Agricultural Products
DuPont Canada Incorporated - Gibbons Plant
Ducks Unlimited Canada - Red Deer

Due West Student Painting
Durametall Canada Inc.
EPCOR
ESYS Corporation
Eagle River Power Services, Inc.
Earth Signal Processing Limited
Earthkeeping (Food and Agriculture in Christian Perspective)
East Central Health District
Eco Tech Consulting Ltd.
Edmonton Brain Injury Relearning Society
Edmonton Catholic School District
Edmonton Catholic Schools - School of Continuing Education
Edmonton Immigrant Services Association (EISA)
Edmonton International Hostel
Edmonton Journal, The
Edmonton Nature Centres
Foundation/John Janzen Nature Centre
Edmonton Public Schools
Edmonton Regional Airports Authority
Edmonton Social Planning Council
Edmonton Space and Science Centre
Edmonton Symphony Society
Edmonton Working Women - The Collective
Edmonton's Food Bank
Elkview Coal Corporation
EmployAbilities
Emstar
Energy Industries
Enterprise Rent-A-Car
Environmental Services Association of Alberta (ESAA)
Enviros EXCEL Programme, The
Envisoil Land Management - Stettler
Esso Bulk Plant - Barrhead
Evans Consoles Inc.
FNA Foods Inc.
Factory Mutual Engineering
Factory Mutual Engineering - Toronto District Office
Family Centre
Family Resource Centre - CFB Edmonton
Farr Canada Ltd.
Federal Express
Federated Co-operatives Ltd.
Field Tech Agri Services
Fifth Dimension Information Systems
Finkley Forest Industries Inc.
First Nations Resource Council
Fletcher Challenge Energy Canada
Flint Canada Inc. - Edmonton
Flint Canada Incorporated - Calgary
Fluor Daniel Canada Incorporated
Football Alberta
Fording Coal Limited
Forestburg Swimming Pool
Fort McMurray Catholic Schools
Fort Saskatchewan, City of
Francis Winspear Centre for Music (Winspear Centre)
Frey & Associates Engineering Ltd.
Friends of Elk Island Society (FEIS)
Frontier College
Funds Administrative Service
Future Shop - Edmonton (109 Street Store)

Futurekids/Norgunt Math Learning Centre
GE Canada
GE Capital Canada Ltd.
GE Harris Energy Systems Canada, Inc.
GE Multilin
GE Power Systems & Engineering Services
Gambit Products Ltd.
Gateway Research Organization
General Motors of Canada Limited (Diesel Division)
Geneva Gardens Incorporated
Geographic Dynamics Corporation
Gilbert Laustsen Jung Associates Ltd.
Girl Guides of Canada - Edmonton Area
Gold Care Medical Group
Golden Star Resources Ltd.
Goulds Pumps Canada Inc.
Gov't of Alberta, Adv. Ed. & Career Dev. - Finance Division
Gov't of Alberta, Advanced Ed. & Career Dev. (Policy Dev.)
Gov't of Alberta, Advanced Edu & Career Dev.(PQ/AB Exchange)
Gov't of Alberta, Advanced Education & Career Dev. (A&IT)
Gov't of Alberta, Agri, Food & Rural Dev. - Spirit River
Gov't of Alberta, Agriculture, Food & Rural Development
Gov't of Alberta, Agriculture, Food & Rural Development 4-H
Gov't of Alberta, Alberta Transportation & Utilities
Gov't of Alberta, Community Dev. - Seniors Policy & Programs
Gov't of Alberta, Education
Gov't of Alberta, Energy, Dept of
Gov't of Alberta, Enviro Protection, Prov Forest Fire Ctr.
Gov't of Alberta, Environmental Protection, Land & Forest
Gov't of Alberta, Labour (IQAS)
Gov't of Alberta, Labour (Information Services)
Gov't of Alberta, Personnel Administration Office
Gov't of Alberta, Public Works - Supply and Services
Gov't of Alberta, Treasury (Economics & Public Finance)
Gov't of Canada, Canadian Embassy - Washington, D.C.
Gov't of Canada, Communications Security Establishment
Gov't of Canada, Hire-A-Student - Edmonton
Gov't of Canada, National Research Council Canada
Gov't of Canada, Parks Canada - Jasper National Park
Gov't of Canada, Public Service Commission - Edmonton
Gov't of Canada, Public Service Commission - Ottawa
Graham Construction and Engineering (1985) Ltd.
Grand Centre High School
Grande Prairie Friendship Centre
Grande Prairie Museum
Grande Prairie Public Library
Grande Prairie and District Catholic Schools

Grandview Heights Elementary/Junior High School
Great Slave Graphic Signs (1993) Ltd.
Great-West Financial Group
Greater Edmonton Foundation
Gregg Distributors Ltd.
Grinnell Supply Sales Company
Grow Tec Ltd.
H.J. Heinz Company of Canada Ltd.
H.R.B. Electronics Ltd.
HMCS NONSUCH (Edmonton Naval Reserve Division)
Halkier + Dutton Design
Halliburton Canada Inc.
Hazard Alert Training & Supplies Canada Inc. (HATSCAN)
Heart and Stroke Foundation of Alberta & N.W.T.
Heritage Family Services
Hewlett Packard - IDACOM
Telecommunications Operation
High Level Public School
Highland/Corod Inc. (An Evi Oil Tools Division)
Highway 14 Community Futures Development Corporation
House Next Door #1
Houston, District of
Husky Oil Operations Limited
IAESTE Canada
IBM Canada Limited
IMC (Interactive Media Corporation)
Imaging Solutions Ltd.
Imperial Oil Limited (East)
Imperial Oil Limited (West)
Integrated Systems Applications Corporation (ISA)
Intelligent Marketing Systems Inc. (IMS)
InterPlant Consulting Inc.
International Institute for Sustainable Development
Interprovincial Pipe Line Incorporated (IPL)
Interval House
Investors Group Financial Services Inc. (112 Street)
Investors Group Financial Services Inc. (51 Avenue)
Jasper Culture and Recreation Department
Jasper Tramway
Jim Peplinski's Auto Leasing
John Crane Canada Inc.
Johnson Controls Inc.
KIRK Computer Systems Ltd.
KPMG Executive Search
KTI Limited
Kachmar Consulting Group
Kakari Systems Ltd.
Kaytronics Inc.
Keeweenaw Lakes Regional Health Authority No. 15
Kenonic Controls Ltd.
Key Support Services
Kiwanis Enterprise Centre
Klass Mechanical Sales Ltd.
Koch Oil Co. Ltd.
Kumon Canada Inc.
LO-SE-CA Foundation
Labatt Breweries of Canada



University of Alberta Student Services

"Green" literacy lacking

Only five per cent of students study the environment

By Michael Robb

Over the past five years, Canadians have been bombarded with economic news focusing on deficits, GDPs and budgets. As a consequence, some Canadians are now economically literate. The same thing has to happen on the environmental front, says the TransAlta Environmental Research and Studies Centre director, Dr. Ray Rasmussen.

"We think only about two to five per cent of students at the U of A ever take what we call an environmental studies course," he explains. "That means that 95 per cent of students make it through the University without ever understanding the science of the environment beyond what they can pick up in the popular media."

Rasmussen and his colleagues at the Centre want to change that. "We want to improve the environmental literacy rate of our students—and that doesn't mean advocacy. Students have a right to know from reputable scientific sources about what's going on in the area."

The Centre has several initiatives under way. It will be developing a web page and a seminar series. Scholarships will be

available to PhD students for summer projects and the Centre will initiate a high school competition to encourage students to tackle environmental problems through an interdisciplinary approach.

The outreach doesn't stop with students. The Centre also plans to tell government and other external agencies more about environmental research at the U of A.

All this is now possible as a result of a half million dollar donation from TransAlta Utilities. TransCanada Pipelines has also contributed \$125,000 to the Centre.

Rasmussen says the last five years have brought phenomenal growth in environmental studies at the University. But unlike the U of C, which has created a specific faculty in the area, the U of A has opted to organize its environmental studies programs within faculties. The U of A's offerings in the area are as strong as many other universities, but the fact that they reside within faculties has made it more difficult to let students know. Rasmussen says the Centre will be working hard to raise the profile of those programs, so potential students can find them more easily. ■

Advisory committee for vice-president (RESEARCH AND EXTERNAL AFFAIRS) FACULTY NOMINATIONS

Dr Roger Smith's 18-month term as Acting Vice-President (Research & External Affairs) ends on June 30, 1998. In consultation with the Acting Chair of the Board of Governors, Mr Lloyd Malin, President Rod Fraser has therefore asked that an Advisory Committee for Vice-President (Research & External Affairs) be struck.

The composition of the Advisory Committee for Vice-President (Research & External Affairs) includes two members of the full-time and continuing part-time faculty (Categories A1.1, A1.5 or their counterparts in A1.6) who do not hold administrative positions as defined in Section 22.3.2(4) of the GFC Policy Manual. Staff who are on leave are not eligible to serve. Dr Fraser will chair the first meeting of the Advisory Committee in early November; service on this committee involves a significant time commitment.

Written nominations supported by the signatures of five members of the full-time and/or part-time academic

staff (not including the nominee) should be submitted to the Director of the University Secretariat, Ellen Schoeck, 2-5 University Hall. **Nominations must be received by Tuesday, October 14, 1997, 4:30pm.** Nominees must agree to stand for election to the Advisory Committee. GFC regulations require that nominees should not be holders of an administrative position, such as dean or department chair, since administrators are already represented on the Advisory Committee. The newly revised composition of this 13-member Advisory Committee for Vice-President (Research & External Affairs), together with nomination and election procedures, are contained in Section 102 of the GFC Policy Manual, which is available in the University Secretariat (2-5 University Hall) and on the World Wide Web located at www.ualberta.ca/~unisechr/. If you have any questions about eligibility to serve or to nominate, please call Ellen Schoeck at local 5430.

CAPS

Career and Placement Services

Thanks

the following organizations for recruiting University of Alberta students for summer, temporary, and permanent positions during 1995/1996.

Lakeland Agricultural Research Assoc. (LARA) - Bonnyville
Lakeland Catholic Board of Education No. 150
Lakeside Fertilizer
Lakeside Packers
Latitude 53 Society of Artists
Layfield Plastics - Edmonton
Lee Tool (A Division of Schlumberger Canada Limited)
Leon's Furniture Ltd.
Lesser Slave Lake Community Development Corporation
Limagrain Canada Seeds Inc. - Edmonton
Limagrain Canada Seeds Inc. - Saskatoon
Little Bits Riding Club for the Disabled
Lo Se Ca
Lorjen Industrial Cleaning Ltd.
London Life (Corporate Division) - Edmonton
London Life Retirement Planning Services
Lone Pine Publishing
Lucy Baker School
MOSAID Technologies Inc.
MPR Extensys
MSR Magmeter
MacDon Industries Ltd.
MacDonald Dettwiler and Associates Limited
MacDonald Island Park Society/Fort McMurray Tennis Club
MacMillan Bloedel Limited - Powell River Division
Mad Science - Northern Alberta
Madenia Communications Inc.
Major Wireless Communications Inc.
Manalta Coal Ltd.
Matheson Gas Products Canada
Matrikon Consulting Inc.
McAllister Petroleum Services Ltd.
McGraw-Hill Ryerson Limited
McMan Youth, Family and Community Association - High Level
McMaster University - Career Planning & Employment Centre
Medicine Hat School District No. 76
MegaSys Computer Technologies
Metacom Corporation
Metropolitan Credit Adjusters Ltd. (Health Division)
Microstar Software Limited
Midland Walwyn Capital Inc. (Partnership of Forbes & Schmidt)
Miller Western Industries Limited
Miller Environmental Corporation
Mistahia Health Region #13
Mobil Oil Canada
Mobiltext Data Ltd.
Molson Breweries - Edmonton
Monsanto Canada Inc. (Crop Protection Business Unit)
Moore Products Co. (Canada) Inc.
Moose Jaw - Thunder Creek Health District
Moraine Lake Lodge
Morningstar Air Express Inc. - Flight Dispatch Operations
Mount Royal College
Mountain Gift Shop and Post Hotel
Gifts
NCompass Labs Inc.

NSK-RHP Canada Inc.
Nesbitt Burns - Calgary
NeuroMotion Inc.
New Holland Canada, Ltd.
Newbridge Networks Corporation
Norcen Energy Resources Ltd.
Norlak Software
Nortel
North Peace Applied Research Association (NPARA)
North Peace Community Resources Society
Northern Alberta Institute of Technology (NAIT)
Northern Cablevision Ltd.
Northern Lights School Division No. 113
Northern Lights Staffing Inc.
Northwestern Utilities Ltd. (An ATCO Company)
Northwood Pulp & Timber Limited - Houston Region
Norwood Community Service Centre
NovAtec Inc.
Nova Chemicals Limited
Nova Corporation
Novartis Crop Protection Canada, Inc. - Calgary
Nowasco Well Service Limited
O'Chiese Education Authority
O'Connor Associates Environmental Ltd.
OTATCO Inc.
Ogilvie and Company (Barristers and Solicitors)
Olson's Ventures Reforestation Inc.
Olsten Services
Online Business Systems
Ontario Swine Improvement, Inc.
Opcom Solutions Inc.
Outland Reforestation Inc.
Outsource Group
PCL Constructors Inc.
PFSL Investments Canada
PMC-Sierra, Inc.
PPG Canada Inc.
PPM 2000 Inc.
Pacific Forest Products Limited (Nanaimo Lumber Operation)
Pan Canadian Petroleum Limited
Pangaea Systems Inc.
Paralympic Sports Association
Parametric Technology Corporation
Parker Hannifin (Canada) Inc.
Parkland # 31, County of
Parkland Conservation Farm
Patchmaster Road Repair Inc.
Peace River School Division No. 10
Pegasus Electronic Design Inc.
Pembina Corporation
Pembina Valley Bible Camp and Retreat Centre
Pentagon Structures Ltd.
Peter Kiewit Sons Company Ltd.
Petro-Canada
Petro-Canada Products (Edmonton Refinery)
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Phase Technology
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Placer Dome Canada Limited
Playworks, Inc.
Pollard Banknote Limited
Poundmaker's Lodge Adolescent Treatment Centre
Prairie Roadbuilders Ltd.
Prairie Seeds Limited
Pratt & Whitney Canada, Inc.
Pre Print Inc.
PrimeLine Food Partners
Propak Systems Ltd.
Provincial Museum of Alberta
Proxy Systems Ltd.
Quadrus Consulting and Development
Quadrus Development Inc.
Quest - An Alliance Corporation
Raydan Manufacturing Ltd.
Raylo Chemicals Inc. (A Laporte Organics Company)
Recochem (B.C.) Inc.
Reforestation and Developments, Inc.
Regina Health District
Reid Crowther & Partners Ltd. - Consulting Engineers
Reuters Information Services (Canada) Ltd.
Reynolds-Alberta Museum
Rhône-Poulenc Agriculture Canada Inc.
Richter Raymond Group
Rockwell Automation (Allen-Bradley Canada Ltd.)
Rocky Mountain House, Town of (Public Works Department)
Rocky Mountain Rickshaw - Jasper
Rocky Mountain Technologies
Rosemount Instruments Ltd.
Royal Alexandra Foundation
Royal Bank of Canada - Edmonton
Royal Bank of Canada - Toronto
Royal Glenora Club
Royal Insurance
Royal Tyrrell Museum Cooperating Society
Rubbish Express
Rural Education and Development Association (REDA)
SHL Systemhouse Inc., An MCI Company - Edmonton
SMEDA Business Development Corporation
SNC Lavalin Inc.
STAPLES - The Office Superstore
Sagikawa Christian Camps
Sales and Merchandising Group
Salman Partners Inc.
Samac Engineering Ltd.
Sander Geophysics Limited
Saville Systems Ltd.
Saylor's Employment and Consulting Ltd.
Schlumberger Canada Ltd. - Electricity Management Division
Schlumberger of Canada - Wireline & Testing
Schlumberger of Canada Limited - Dowell
School District No. 34 - Abbotsford
School District No. 38 - Richmond
School District No. 81 - Fort Nelson

School District No. 23 - Central Okanagan
Science Alberta Foundation
Scouts Canada - Edmonton Region
Selections - Job Placement That Works!
Sequiter Software Inc.
ServiceMaster of Edmonton - Commercial Cleaning Services
Sharp Environmental & Fertilizer Ltd.
Shell Canada Limited
Shell Canada Limited (Scottford Complex)
Silvacom Group
Sister Gloria School
Skills Training & Support Services Association
Skystone Systems Corporation
Slave Lake Pulp Corporation
Smart Technologies Inc.
Smoky Applied Research & Demonstration Association (SARDA)
SoftQuad Inc.
Solomon Learning Institute
Soltek Solar Energy Ltd.
Sorrento Centre (Retreat and Conference Centre)
Sorrento Systems Inc.
South Edmonton Child Care Centre
Spantec Constructors Ltd.
Spartan Controls Ltd. - Calgary
Speedy Heavy Hauling Ltd.
Sport For Life/Swim Gym
St. Albert Historical Society
St. Albert, City of (Family & Community Support Services)
St. Amour & Associates
St. Paul Education Regional Division No. 1
Stage Polaris
Starco Engineering Ltd.
Strathcona, County of (Recreation, Parks and Culture)
Stream-Flo Industries Limited
Sturgeon Valley Fertilizers Ltd.
Summit Reforestation Ltd.
Sun Life Assurance Company of Canada
Suncor Inc., Exploration & Production
Suncor Inc., Oil Sands Group
Sundog Forestry Limited
Surety Manufacturing and Testing Limited
Surprise Lake Camp
Swim Alberta
SynPhar Laboratories Inc.
Synchrude Canada Limited
TIA Youth Club
TTG Systems Inc.
Taylor Industrial Software
Telus Communications Inc.
Terry Fox Foundation
Theatre Alberta Society
Think Green Alberta Ltd.
Thorndiff After-School Care Association
Thurston Machine Inc.
Ticket Master
Tim Horton Children's Ranch
TimberWest Forest Limited - Mackenzie Region
Timberline Forest Inventory Consultants
Titan Technologies
Together Personal Introductions
Tolko Industries Ltd.

Tom Jones Software Company
Trane Canada
TransAlta Utilities Corporation
TransAlta Utilities Corporation (Sundance Generating Plant)
TransEnergy Management Inc.
Transfeeder Inc.
Triple 'A' Student Painters (T.A.S.P.)
Tsuga Forestry Contractors Limited
Tucker Wireline Services Canada Inc.
U of A, Agriculture Food and Nutritional Science, Dept of
U of A, Alberta Microelectronic Centre
U of A, Anatomy and Cell Biology, Dept of
U of A, Arts, Faculty of
U of A, Athletics, Dept of
U of A, Biological Sciences, Dept of
U of A, Bookstore
U of A, CJSR FM88
U of A, Campus Outdoor Centre
U of A, Campus Security Services
U of A, Career and Placement Services (CaPS)
U of A, Chemistry, Dept of
U of A, Civil Engineering (CEM Group)
U of A, Civil and Environmental Engineering, Dept of
U of A, Computing and Network Services
U of A, Dean of Students, Office of the
U of A, Development Office
U of A, Drama, Dept of
U of A, Elementary Education, Dept of
U of A, English, Dept of
U of A, Extension, Faculty of
U of A, Extension, Faculty of (Legal Studies Program)
U of A, Extension, Faculty of (Programs for Older Adults)
U of A, Graduate Students' Association
U of A, Health Sciences Laboratory
U of A, Hospitals
U of A, Housing & Food Services, Dept of
U of A, Human Ecology, Dept of
U of A, Human Resource Group
U of A, Industry Liaison Office
U of A, International Centre
U of A, Museums and Collections Services
U of A, Nursing, Faculty of
U of A, Office of the Dean of Students
U of A, Physical Education and Recreation, Faculty of
U of A, Physical Plant, Dept of
U of A, Planning and Development
U of A, Registrar and Student Awards, Office of the
U of A, Renewable Resources, Dept of
U of A, Student Financial Aid and Information Centre
U of A, Student Group Services
U of A, Students' Union
U of A, Students' Union (Safewalk)
U of A, Students' Union (Student Help)
U of A, Students' Union Information Registries
U of A, Students' Union Information Services

U of A, Technology in Education, Division of
U of A, University Health Centre
U of A, Vice-President (Academic)
U of A, Vice-President (Finance & Administration)
U of A, WISEST
Ukrainian Bilingual Association of Alberta
Ulterra Geoscience Ltd.
United Grain Growers - Winnipeg
Unity Centre of North East Edmonton
University First Class Painters
University of Calgary, Institute for Space Research
University of Manitoba, Faculty of Engineering
Valley Zoo Development Society
Valmet Automation (Canada) Limited
Valtek Controls Limited
Varco International, Inc.
Verbeek Sand & Gravel
Vertical Technologies
Vicom Multimedia Inc.
Victory Christian School
Visual Systems Development Group
Volunteer Centre of Edmonton
VoxCom Security Systems Inc.
Wascana Energy Inc.
Water Ski Alberta
WeXL Inc.
Weldwood of Canada Limited (Hinton)
Weldwood of Canada Limited (Vancouver)
West Edmonton Seniors
Westair Corporation
Westair Corporation - Agronomy and Marketing Services
Westburne Electric Supply - Edmonton
Westco - Alberta Pool
Westcomm Pump and Equipment Ltd.
Westcorp Realty Inc.
Western Forest Products Ltd. (Northern Administration)
Western Geophysical Company
Western Management Consultants
Weyerhaeuser Canada Limited - Grande Cache Operations
Weyerhaeuser Canada Limited - Grande Prairie Operations
Weyerhaeuser Canada Limited - Kamloops, B.C.
Weyerhaeuser Canada Limited - Saskatchewan Timberlands
Winterco/Summerco Factory-Direct Outer Wear
Wood Buffalo, Regional Municipality of
Xerox Canada Limited (Edmonton Office)
YMCA Community Learning Centre
YMCA of Calgary (Camp Chief Hector)
YMCA of Regina (Camp Ta-Wa-Si)
YWCA of Edmonton - Family Relief Services
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Zeneca Agro - Edmonton



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Come for Shabbat Stay for the High Holy Days

Join us, our rabbi, Lindsey bat Joseph and Chavarat Hashir (Singing Friends) for weekly Kabbalat Shabbat services, Friday evenings in our sanctuary at the Jewish Community Centre.

High Holy Days begin Wednesday, October 1 with our Erev Rosh HaShanah service at 8:00 pm. Rosh HaShanah morning services begin at 10:00 am, Thursday October 2, followed by our traditional Seder-Brunch. Tashlich service to follow at 3:00 pm.

Kol Nidre Service begins at 8:00 pm Friday, October 10. Yom Kippur Day Services begin with Shacharit at 10:00 am, Saturday, October 11. Children's service begins at 2:00 pm. Afternoon, Yizkor and Concluding Services begin at 4:00 pm. Services conclude with Havdallah and an informal break-the-fast.

Temple Beth Ora
Edmonton's Reform Jewish Congregation
7200 - 156 Street, Edmonton Phone: 487-4817

Faculty of Medicine and Oral Health Sciences University Days ("Super Saturday")

30th Annual STUDENTS' RESEARCH DAY

Saturday, October 4, 1997
10:00 am to 4:00 pm
2-27 Medical Sciences Building

Come visit our Open House and attend our Research Day!

talks

Submit talks to Tamie Heisler by 9 a.m. one week prior to publication. E-mail at public.affairs@ualberta.ca.

ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

October 3, noon

Fumio Endo, Associate Professor, Department of Pediatrics, Kumamoto University School of Medicine, Kumamoto, Japan, "Apoptosis of Hepatocyte and Early Involvement of Mitochondria in Tyrosinemia Type I." Sponsored by Biochemistry. 452 Heritage Medical Research Building.

BIOLOGICAL SCIENCES

October 1, noon

Allen Good, "Metabolic Manipulations of Stress Tolerance in Plants." B-105 Biological Sciences Centre.

October 2, 4 p.m.

Joao Sousa, "Don't Count Your Instars Before They Hatch! Description Difficulties with Egg Parasitoid Larvae." TB-W1 Tory Breezeway.

October 8, noon

Larry Guilbert, "The Role of Maternal Immunity in the Transmission of Infectious Diseases During Pregnancy: The Cost of Compromise." B-105 Biological Sciences Centre.

October 9, 4 p.m.

Christian Klingenberg, Department of Zoology, Duke University, North Carolina, "How to Become Lopsided: Development and Evolution of Asymmetry in Insects." TB-W1 Tory Breezeway.

October 10, 3:30 p.m.

Dr. Paul Mains, professor, Department of Medical Biochemistry, University of Calgary, "Meiosis and Morphogenesis in C. elegans, M-149 Biological Sciences Building.

CANADIAN INSTITUTE OF UKRAINIAN STUDIES

October 6, 3:30 p.m.

Andrij Hornjatkevyc, "Zinovii Shtokalko's Kobza" (in Ukrainian). 352 Athabasca Hall.

CENTRE FOR GERONTOLOGY

September 29, 7:30 p.m.

Vivian Manasc, FSC Groves Hodgson Manasc Architects, "Contemporary Concepts in Architectural Design for Aging." 2-07 Corbett Hall.

CENTRE FOR RESEARCH FOR TEACHER EDUCATION AND DEVELOPMENT

September 29, 1 p.m.

Celia Oyler, Teachers College, Columbia, "Challenging the Dichotomies of Progressive Education." 633 Education South.

CENTRE FOR RESEARCH IN CHILD DEVELOPMENT.

September 26, 1 p.m.

David Baine, "Daily Life and Education in Rural India." P-218 Biological Sciences Centre.

October 10, 1 p.m.

J.P. Das, "Issues in Educating South African Children: A Participant's Report." P-218 Biological Sciences Centre.

CHEMICAL AND MATERIALS ENGINEERING

October 2, 3:30 p.m.

Suzanne Kresta, "Turbulence in Stirred Tanks: Anisotropic, Approximate, and Applied." 342 Chemical-Mineral Engineering Building.

October 9, 3:30 p.m.

Steven P. Asprey, "Application of Temperature-Scanning in Kinetic Investigations: The Steam-Reforming of Methanol." 342 Chemical-Mineral Engineering Building.

CHEMISTRY

October 1, 1 p.m.

Robert M. Williams, Department of Chemistry, Colorado State University, "Synthetic and Biomechanistic Studies on the Antitumor Antibiotics Bioxalomyin, Quinocarcin and FR900482." E3-25 Chemistry Centre.

CIVIL AND ENVIRONMENTAL ENGINEERING

September 29, 3 p.m.

Gilbert Gordon, Volwiler Research Professor, Chemistry Department, Miami University, "Do Mixed Oxidants Really Contain Ozone and/or Chlorine Dioxide?" 317 Civil-Electrical Engineering Building.

EAST ASIAN STUDIES

October 3, 11 a.m.

Dominic Cheung, Professor and Chair, East Asian Languages and Cultures, University of Southern California, Los Angeles, "Updating a Hybrid Culture: Modernity and Subjectivity in Modern Taiwanese Literature." Co-sponsor: Alberta Society for Chinese Literature and Fine Arts. 504 Arts Building.

ENGLISH

September 26, 3 p.m.

Panel discussion, "Postcolonialism at the Point of Interdisciplinarity." 4-29 Humanities Centre.

FACULTY OF ARTS KREISEL LECTURE

October 6, 4 p.m.

Donald Richie, author, scriptwriter, director, and journalist, "Traditional Aesthetics in the Japanese Film." L-2 Humanities Centre.

Anne Hollander, author of *Seeing Through Clothes* (1978), *Moving Pictures* (1989), and *Sex and Suits* (1994), will give a series of three lectures on clothes in arts and literature:

October 7, 3:30 p.m.

"Living Dolls: Children's Clothes in Art."

2-115 Education North.

October 8, 4 p.m.

"Clothes and Words: How Dress is Read."

L-2 Humanities Centre.

October 9, 3:30 p.m.

"Literary Fashion: Clothing Character."

L-2 Humanities Centre.

INSTITUTE FOR PUBLIC ECONOMICS

October 2, 3:30 p.m.

Derek Hermanutz, Alberta Treasury, "Leviathan Revisited." 8-22 Tory Building.

MEDICINE AND ORAL HEALTH SCIENCES

September 29, 1 p.m.

The Annual Lecture on Aboriginal Health Issues. Louise Sanderson, RN, Coordinator of the Royal Alexandra Hospital Aboriginal Diabetes Wellness Program, "The Aboriginal Diabetes Wellness Program: A Holistic and Cultural Way to Wellness."

Malcolm King, "Learning from Traditional Medicine: Mucokinetic Treatment Based on Traditional Native Herbal Preparation." Bernard Snell Hall, Mackenzie Health Sciences Centre.

MODERN LANGUAGES AND COMPARATIVE STUDIES

Filippo Salvatore, Concordia University, Montreal, an internationally recognized figure in the field of Italian and Italian/Canadian Literature, Cinema and Culture, will present the following lectures:

September 29, 4 p.m.

"Umberto Eco's *The Name of the Rose*: from the Novel to the Film." 141 Arts Building.

October 1, 4 p.m.

"A Computer's Prank Leads to Murder: Hermetic Hermeneutics in Umberto Eco's *Foucault's Pendulum*." 141 Arts Building.

October 3, 4 p.m.

"A Libertine's Shipwreck Becomes a Sacred Epic at 180 Longitude: Umberto Eco's *The Island of the Day Before*." 141 Arts Building.

October 5, 3 p.m.

"Italy from the First to the Second Republic (1946-1996)." Santa Maria Goretti Community Centre.

October 6, 4 p.m.

"Luchino Visconti's *Senso* and *The Leopard* or an Aristocrat's Interpretation of the Unification of Italy." 141 Arts Building.

October 8, 4 p.m.

"Dante and the European Literature of the Twentieth Century: T.S. Elliot, St. John Perse, Pier Paolo Pasolini." 141 Arts Building.

October 10, 4 p.m.

"Marinetti, Futurism and Avant-Garde Movements in Early Twentieth Century Italy." 141 Arts Building.

MOLECULAR BIOLOGY AND GENETICS RESEARCH GROUP

September 26, 3:30 p.m.

Beverley S. Emanuel, Division of Human Genetics and Molecular Biology, Children's Hospital of Philadelphia, "From Maps to Candidate Genes: Dissection of the Human Chromosome 22q11.2 Deletion." G-116 Biological Sciences Centre.

October 3, 3:30 p.m.

Shauna Somerville, Department of Plant Pathology, Carnegie Institution of Washington, Stanford, California, "Host-Pathogen Interactions in the Powdery Mildew Disease." G-116 Biological Sciences Centre.

NURSING

October 2, noon

Linda Ogilvie, "Working with Teaching Assistants." 6-107 Clinical Sciences Building.

PERINATAL RESEARCH CENTRE

October 7, noon

Murray Mitchell, Professor and Head, Department of Pharmacology and Clinical Pharmacology, University of Auckland, New Zealand, "Prostaglandins, Cytokines and Preterm Labour—Something for Everyone." 207 Heritage Medical Research Centre.

PHILOSOPHY

October 3, 4 p.m.

Patricia Ireland, "The Connection Between Kant's Ethics and Aesthetics." 4-29 Humanities Centre.

October 10, 4 p.m.

Craig Squires, "Non-Standard Interpretations of the Classical Propositional Calculus." 4-29 Humanities Centre.

PHYSICS

September 26, 2 p.m.

James R. Thompson, Department of Physics, University of Tennessee, Knoxville, Tennessee and Solid State Division, Oak Ridge National Laboratory, "Improving Mother Nature's Gift: Processing High Temperature Superconductors for High Current Conduction." V-129 Physics Building.

POLITICAL SCIENCE

October 1, 7 p.m.
Anna Yeatman, "Toward a Politics of Co-existence: Rethinking Political Community." L-1 Humanities Centre.
October 2, 3:30 p.m.
Anna Yeatman, "Toward a New Citizenship: Relational Individualism." 10-4 Tory Building.

PSYCHOLOGY

October 6, 7, and 8, 4:30 p.m.
Charles R. Gallistel, Professor of Psychology, University of California at Los Angeles, "Time and Conditioning." CW-410 Biological Sciences Centre.

PUBLIC HEALTH SCIENCES

October 1, noon
Rob Hayward, TBA. 2F1.04 Mackenzie Health Sciences Centre.

RENEWABLE RESOURCES

***October 2, 12:30 p.m.
Frederick C. Miller, Research Scientist, Composting Technology Centre, Olds College, "Composting as a Managed Ecosystem: Transferring What We Know Into Practice." 2-36 Earth Sciences Building.
***October 9, 12:30 p.m.
Andrei Valichko, Distinguished Visitor, Russian Academy of Sciences (Moscow), "Paleo Evidence for Climate Change in Siberia." 2-36 Earth Sciences Building.

RURAL ECONOMY

September 29, 3:15 p.m.
Robert Sugden, Professor, School of Economic and Social Studies, University of East Anglia, England, "The Selection of Preferences Through Imitation." 550 General Services Building.

SURGERY

October 3, 7:30 a.m.
B.K.A. Weir, "Human Knowledge—Then, Now, and in the Future—Will It Save Us?"
October 3, 8:45 a.m.
P.B.R. Allen, "History of the Department of Surgery."
October 3, 10 a.m.
D.W.C. Johnston, "Robo-Surgeon: A New Member of the Surgical Team."

J.M. Findlay, "Neurosurgery for the Third Millennium."
N.M. Kneteman, "Transplantation—Building the Future."
G.T. Todd and G.L. Warnock, "Virtual Teaching." October 3, 11:15 a.m.
S.M. Hamilton, "Health Care in the New Millennium—The Canadian Model."
B.K.A. Weir, "Health Care in the New Millennium—The American Model."
All events take place in Bernard Snell Hall, Mackenzie Health Sciences Centre.

THE 10TH JOHN S. COLTER LECTURE IN BIOCHEMISTRY

September 29, 4 p.m.
Gottfried Schatz, Professor of Biochemistry, Department of Biochemistry, Biozentrum, University of Basel, Switzerland, "The Life and Death of Mitochondrial Proteins." 2-27 Medical Sciences Building.

TRANSALTA ENVIRONMENTAL RESEARCH AND STUDIES CENTRE

October 2, 4:30 p.m.
Robert Grant, "What Does Global Climate Change Mean for Ecosystems in Western Canada?" Horowitz Theatre, Student's Union Building.

UNIVERSITY TEACHING SERVICES

September 30, 2 p.m.
Brian Nielsen, "Evaluating Student Performance: Marking, Grading, Use of the Guidelines." TB-W2 Tory Breezeway.
October 2, 3:30 p.m.
Katy Campbell, "Supporting Instruction with Electronic Presentations: Making a Presentation I." Cameron PC MicroLab 1-20G.
October 7, 3:30 p.m.
Janet Smith and Lois Stanford, "Establishing Boundaries in the Classroom." 219 CAB.
October 8, 3 p.m.
Billy Streat, "Of Course I Want to Foster Critical Thinking. How Do I Do It? (Even in Large Classes)." TB-W2 Tory Breezeway.
WHAT'S UP DOC?
October 17, noon
Don Horwood, "Winning in Sports and Life." City Room, City Hall, 1 Sir Winston Churchill Square.

events

UNIVERSITY DAYS

EDMONTON CONVENTION CENTRE

Oct. 1, 11 a.m. to 12 p.m.
University of Alberta Annual General Meeting. Join Edmonton's business and community leaders for the U of A's third Annual General Meeting. In a dynamic one-hour program, the University reports some of its outstanding achievements to constituents.

ACROSS CAMPUS

Oct. 2-5
Reunion Weekend '97. Alumni gather to celebrate the green and gold and "U of A Pride." Events kick off with the AGM followed by an induction to the Alumni Wall of Recognition Thursday, October 2 at 7 p.m. in the Students' Union Building. This year's inductees include international home economist Lila Engberg, renowned oil industry corporate executive Richard Haskayne, Principal of Alex Taylor School Stephen Ramsankar and leading plant molecular biologist Christopher Sommerville.

ACROSS CAMPUS

October 4, 9:30 a.m. to 4 p.m.
"Super Saturday." Faculty and alumni share their professional expertise in a series of 22 exciting lectures ranging from "Coffee Cups to Jupiter's Atmosphere: Eddies in Our Lives," by Dr. Gordon Swaters to "The Great Northern Fiddler: Documenting Social and Musical Life in Alberta," by Dr. Regula Qureshi.

EXHIBITIONS

BRUCE PEEL SPECIAL COLLECTIONS LIBRARY

Until December 1997
"She Wields a Pen: An Exhibition of Women's Literary History." Hours: Monday to Friday, 8:30 a.m. to 4:30 p.m. (after October 14, extended hours as posted). B7 Rutherford South.

FAB GALLERY

September 30 to October 19
MasterClass—an exhibition of prints by 25 years of graduates from the Department of Art and Design's printmaking division. Hours: Tuesday to Friday, 10 a.m. to 5 p.m.; Sunday, 2 to 5 p.m.; closed Monday, Saturday and statutory holidays. 1-1 Fine Arts Building.

EDMONTON ART GALLERY

Until November 9
Francisco Goya, "The Disasters of War." EAG presents 80 prints dating from 1810 which express Goya's angry reaction to the events surrounding Napoleon's invasion of Spain. This show was organized to coincide with the U of A Sightlines Conference.

MCMULLEN GALLERY

Until October 29
As part of the Sightlines Conference, McMullen Gallery presents "In Situ, Contemporary Canadian Prints," a display works by Canadian artists from every region of the country. Hours: Monday to Friday, 10 a.m. to 4 p.m.; Saturday and Sunday, 1 to 4 p.m.; Thursday, 5 to 8 p.m. (subject to availability of volunteers). Information: 492-8428 or 492-4211. Mackenzie Health Sciences Centre.

MUSIC

DEPARTMENT OF MUSIC

September 28, 8 p.m.
Last night of "A Passion for Bach." Walter Reiter, conductor and soloist, with the University of Alberta Madrigal Singers and Academy Strings performing works by Handel. Festival hotline: 492-2949. Admission: \$10/adult, \$5/senior and student. Convocation Hall, Arts Building.
September 29, noon
Noon-Hour Organ Recital—featuring faculty member Marnie Giesbrecht. Convocation Hall.
October 5, 10 a.m.
"Passion for Bach" Church Service. Robertson-Wesley United Church.
October 6, 12:10 p.m.
Music at Noon—Convocation Hall Student Recital Series featuring students from the Department of Music. Convocation Hall.
October 8, 8 p.m.
The University of Alberta Symphonic Wind Ensemble Concert—Fordyce Pier, director. Admission: \$7/adult, \$5/student and senior. Convocation Hall.

THEATRE

STUDIO THEATRE

Until September 27
"Love! Valour! Compassion!" by Terrence McNally. Box office: 492-2495. Timms Centre for the Arts.

GARDENING

DEVONIAN BOTANIC GARDEN

September 27 and 28, 11 a.m. to 4 p.m.
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Home: Academic Technologies for Learning

Academic Technologies for Learning supports the use of technology in teaching and learning initiatives at the University of Alberta. ATL provides training and consultation in instructional design, production, delivery and evaluation to most effectively utilize learning technologies.

ATL Partner's Program: The Partnership Program supports promising technology-based projects by providing time, space, tools and support to Faculty members. Through the program, ATL sponsors course release for up to three courses (to a maximum of \$10,000).


Faculty Innovator Project Program: ATL supports each Innovator project with up to \$500 worth of software, hardware or peripheral support or the loan of a multimedia equipped portable computer for the 8 months of the project.

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Show Time: Upcoming Events
Netscape Navigator vs. Microsoft Internet Explorer
The battle of the browsers continues to rage on.
Kenton Good
Friday Oct. 3, 9:00-10:00 am, 2-111 Education N.

Computer Conferencing with WebBoard
Interested in a classroom communication tool?
Norm Friesen
Friday Oct. 10, 9:00-10:00 am, 2-111 Education N.



Academic Technologies for Learning

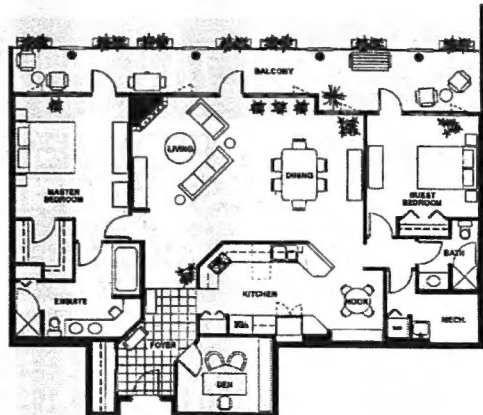
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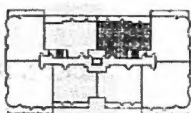
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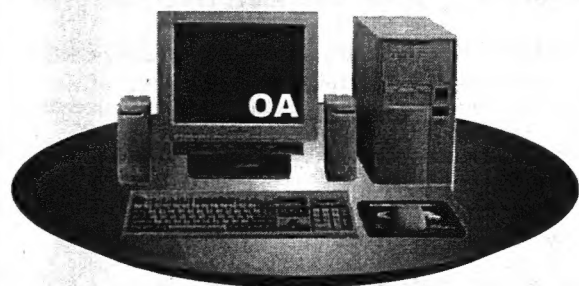
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RESEARCH ASSOCIATE

The Alberta Centre for Well-Being is a leading source of information regarding healthy, active lifestyles for the province of Alberta. In collaboration with partners, the research unit of the ACFWB establishes the case for incorporating physical activity as part of a healthy lifestyle, monitors the status of healthy, active lifestyles, and understands the determinants of, and best practices related to, healthy, active lifestyles.

The research associate will work as part of a team, under the leadership of the research coordinator, in fulfilling the research agenda for the ACFWB. The associate will be able to demonstrate proven ability to undertake primary research, in-depth secondary data analysis, interpretation, application and dissemination. The successful candidate will have a PhD in epidemiology, exercise psychology or social psychology or related area, proven skills in research design, computer applications, proposal preparation, evaluation and excellent communication skills.

Only Canadian Citizens are eligible.

A letter of application and curriculum vitae including the names of three references should be received by the 6th of October 1997 and sent to

Research Selection Committee
Alberta Centre for Well-being
3rd Floor, 11759 Groat Road,
Edmonton, AB T5M 3K6
Fax: 403/455-2092

Thank you for your interest however only successful candidates will be notified.

RESEARCH ASSOCIATE/ COORDINATOR

CENTRE FOR HEALTH PROMOTION STUDIES

The Centre for Health Promotion Studies is seeking a full-time Research Associate/Coordinator. The Centre was created in 1995 and is formally linked to the Co-ordinating Council of Health Sciences. The Centre is committed to interdisciplinary research and graduate education in collaboration with community and academic partners. faculty associates and graduate students from a wide range of academic fields are participating in Centre activities.

The research associate/coordinator should preferably be a doctorally prepared or a Ph.D. student in the health sciences or a health-related discipline. A master's degree in a health-related discipline and post master's research experience (e.g. project coordinator, research assistant, investigator) is required. Knowledge of quantitative and qualitative research methodologies is expected. The research associate/coordinator will assist the Centre associates and the director, Dr. Miriam Stewart, with diverse research activities such as literature reviews, proposal development, data collection and analysis, and publications.

Job sharing by individuals wanting part-time work will be considered. The salary will range from \$18-25/hour depending on qualifications and experience. Please submit a letter of application and resume by October 10, 1997 to

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Corel WordPerfect	Oct. 3	8:30-10	G5B 866
Microsoft Word-Part 1	Oct. 7	8:30-10	Cameron lab
Microsoft Word-Part 2	Oct. 9	8:30-10	Cameron lab

Information Searching

MLA International Bibliography	Oct. 8	10-11	Cameron lab
MLA International Bibliography	Oct. 9	10-11	Cameron lab

Basic Online Catalogue

Searching Using InfoGate	Oct. 10	9-10:30	Cameron lab
Using Data: Statistics Canada Data Available Electronically	Oct. 8	1-3	Cameron lab

Internet Tools

Eudora Electronic mail	Oct. 1	9-10:30	Law W-104
Eudora Electronic mail	Oct. 7	10-11:30	Cameron lab
Introduction to the Internet	Oct. 2	11-12:30	Cameron lab
Comparing Netscape to Internet Explorer	Oct. 3	9-10	ATL Studio
Netscape Navigator I	Oct. 9	2-3:30	Cameron lab
Connecting to the Campus Network	Oct. 8	12-1	Cameron lab

Courseware Design and Development

Educational Conferencing Technologies	Oct.1	2-3:30	ATL Studio
Conferencing with WebBoard	Oct. 10	9-10	ATL Studio

Supporting Instruction with Electronic Presentations:

Making a Presentation I	Oct. 2	3:30-5	Cameron lab
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Or email: atlcours@gpu.srv.ualberta.ca

laurels

BLEACKLEY NAMED MRC DISTINGUISHED SCIENTIST

Dr. Chris Bleackley, a professor of biochemistry with a cross appointment in immunology, has been named an MRC Distinguished Scientist. The five-year award is designed to support the salary of highly renowned scientists who are at the forefront of health research among world leaders in their field.

Bleackley was one of six Canadians to receive the most prestigious award given by the Medical Research Council of Canada each year. He is recognized as one of the leading molecular immunologists, in Canada and internationally, in the field of granzyme molecular genetics. His research focuses on processes leading to cell death and could hold clinical promise in areas such as transplantation and autoimmunity, and perhaps vaccination.

DEAN OF EXTENSION HONORED FOR DISTANCE EDUCATION

Dr. Randy Garrison, dean of the Faculty of Extension, has been chosen for the Instructional Telecommunications Council's (ITC) 1997 Canadian Regional Award for Outstanding Contributions to Distance Education. ITC represents 450 colleges and universities in Canada and the United States offering distance education courses. Garrison's award will be presented at the Telelearning '97 conference in Scottsdale, Arizona on Tuesday, Sept. 30.

Garrison has won several other awards including the Charles A Wedemeyer Publications Award for *Understanding Distance Education: A Framework for the Future*, 1990. His background in continuing education includes 12 years with the Faculty of Continuing Education at the University of Calgary, where he served in various capacities including associate dean.

FACULTE PROF INVITED TO MOLDOVA

Professor Pierre Bokor, drama, Faculte Saint-Jean, has just completed a second successful run as guest director at the National Theater Mihai Eminesco in Kishinev, capital city of the Republic of Moldova.

Bokor staged the first Canadian production in that country in 1995, "Les Belles Soeurs," by the well-known French-Canadian playwright Michel Tremblay. Following the success of this production, which is still running, Bokor was invited back to direct another Canadian play this summer. While there he was asked to chair and lead a 10-day improvisational workshop. Financial support for this project was primarily provided by Faculte Saint-Jean at the University of Alberta.

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EXECUTIVE REDECORATED HOUSE in Crestwood. December-June. Call 452-3613.

CLOVERDALE EXECUTIVE - two storey, two bedroom, loft, fireplace, five appliances, two car garage. Smokefree environment, fenced yard, no pets. \$1,250/month. October 1, 469-8066.

WATERS EDGE - Condo. Gorgeous city and river valley views. Five appliances, two bedrooms, two full baths. \$725.00/month plus utilities. 403-433-5674. Possible rent-to-own.

FURNISHED BEDROOM, basement suite. \$350.00 month includes utilities. 85 Avenue & 97 Street, 403-433-5674.

CHARACTER HOUSE - November 1. A stone's throw from University, hospitals. Hardwood floors, wood fireplace, \$650 plus utilities for appropriate couple or single person with good references. 433-4358.

SABBATICAL HOME - Windsor Park. Cat included. Available November 1, 1997-August 31, 1998. Rent negotiable for tenants with excellent references. 433-4358.

APARTMENT - two bedrooms, spacious, clean, quiet. \$495. 10149 - 83 Avenue. Close to all amenities. Ann, 433-2327.

NEWLY BUILT DUPLEX, three bedroom, one full, two half-baths, fireplace, five new appliances. All window coverings, fenced, single car garage. No pets. Nonsmokers. 11133-101 Street, 477-3831. Evenings, 462-8202.

IMMACULATE BRICK CHARACTER HOME - close UofA. Quiet mature nonsmokers. Four bedrooms. \$1,200/month. 477-7036.

ACCOMMODATIONS FOR SALE

VICTORIA PROPERTIES - Knowledgeable, trustworthy realtor with Edmonton references will answer all queries, send information, no cost/obligation. AHassle-free@ property management provided. (250) 383-7100, Lois Dutton, Duttons & Co. Ltd. #101-364 Moss Street, Victoria B.C. V8V 4N1

WINDSOR PARK TWO STOREY HOUSE, 2,680' in cul-de-sac. Four plus one bedrooms. Nanny suite. Double garage. \$298,800. Ann Dawrant, Re/Max, 438-7000. Pager, 480-2920.

BELGRAVIA - lovely, 1,298' bungalow, beautiful yard and location. \$164,900. Spacious. Belgravia, semi, south yard. Immediate possession. \$119,500. Ed Lastiwka, Royal LePage, 431-5600.

FOR SALE BY OWNER - Bonnie Doon. \$96,000. Well-loved. Two plus one, 820' bungalow. Hardwood, large deck, partially finished basement, detached garage, no realtors. 465-5161.

CONDO - 1,460 sq ft plus sun room. Adult community. Five minute walk to Riverbend Square. Phone 988-9089.

UNIVERSITY AVENUE - Like new, Victorian-style two storey. Two bedrooms up, each with ensuite

bath. Main floor family room. Gorgeous basement development offers office, second family room, third bedroom, bath. It's a winner! \$219,900. Kay Patterson, Sutton Devonshire Realty, 438-2500.

WINDSOR PARK - tree-lined street, pretty backyard, double garage, 3 bedroom bungalow. Pat vonBorstel, Prudential Real Estate, 483-7170.

BELGRAVIA - 11528 - 78 Avenue, 2,163'. Recent addition, extensive renovations. Convenient, quiet residential lot. Ideal for families. 434-9112.

CLOSE TO UofA - 1,172 sq.ft. 3 bedroom bungalow with fully finished basement and double detached garage. Completely renovated and landscaped. \$137,500. OBO. 434-9346, Kathy or Len.

ALLENDALE - Cycle to UofA, \$105,000. ASPEN - Small, spotless bungalow, \$138,000. RIVERBEND - townhome, garage, hearthstone, \$129,600.

RIVERBEND - 3000 sq ft bungalow, \$278,000. RIVERBEND - bright, two storey, \$239,000. Denise Rout, 438-7000, Re/Max.

WONDERFUL 1915 STRATHCONA BRICK HOME - immaculate, well-maintained, 2,285' developed. Four bedrooms, den, verandahs. Character plus! All basic upgrades done. Open House Saturday, September 27, 2-4:30. Leslee Greenaway, owner/realtor. \$199,900. 483-7170.

ACCOMMODATION WANTED

HOUSESITTER - mature, nonsmoking grad, pets welcome, housesitting references. Letter of Agreement, Mark, 455-4351.

GOODS FOR SALE

CASH PAID for quality books. The Edmonton Book Store, 433-1781.

ENTERTAINMENT BOOKS. Will deliver with five orders. 433-5674.

KAWAI UPRIGHT PIANO, excellent condition, hardly used. Open to offers. Call 439-3170.

SERVICES

TECH VERBATIM - editing, desktop documents, medical terminology, on campus. Donna, 922-3091.

BRIAN & JEANNETTE'S - Bed and Breakfast. Excellent location. New. 2 1/2 storey. Daily, weekly, monthly. 433-5520, 439-1169, 7914 - 110 Street.

DAVID RICHARDS CARPENTRY. Certified journeyman NAIT. Complete interior/exterior residential, commercial renovations including plumbing/electrical. No job too big/small. References available. 436-6363.

HOME CLEANING - Hardworking, bonded staff. Reasonable rates. Able Maids, 433-9697.

RESIDENTIAL CONTRACTORS, additions, renovations, new homes. Innovation Plus Developments Limited, 434-0923.

DEBT - ELIMINATION and wealth-building software. Request debt-free™ for Windows. Free disk. 471-4176.

MISCELLANEOUS

JUNGAN ANALYST in training with C.G. Jung Institute, Zurich, offering private counselling. Call Marlene Brouwer, B.A., M.T.S., D. (Candidate), Analytical Psychology, 463-5422.

A NEW LUTHERAN PARISH, Holy Name (ELCIC), has come into being in response to those women and men who desire an intentionally inclusive framework (including inclusive God language) for theology and liturgy. It will celebrate its first service at 6:30 p.m. September 28, 1997 at Our Saviour Church, 18345 - 62B Avenue, Edmonton. Pastor Juliette Trudeau, BA, M.Div.

CALLING ALL CURLERS: Men's, Ladies and Mixed. The Shamrock Curling Club has space available in all leagues. Enter as an Individual or Team. Contact Russell or Randy, The Shamrock, 466-5789.

Join us

University Days

October 1 to 5

five days of exciting activities, talks, open houses, and tours for the public and U of A alumni

Reunion Weekend '97
October 2-5, 1997

ALL ARE WELCOME!

University of Alberta Alumni from the graduating classes of '92, '87, '77, '72, '57, '52, '47 and older are invited to Reunion Weekend '97, October 2-5. Events include the Chancellor's Reception, and the Gala Dinner & Dance.

FOR REUNION WEEKEND '97 TICKET AND EVENT INFORMATION
CALL 492-3224

Learn how the University of Alberta serves you!

University of Alberta

Annual General Meeting

WEDNESDAY, OCTOBER 1, 1997

10:30 a.m.

coffee

11:00 a.m. to noon

meeting

Edmonton Convention Centre

RSVP: 492-2735

super Saturday

at the University of Alberta

Come and hear fascinating talks by some of our best professors

Saturday, October 4, 1997

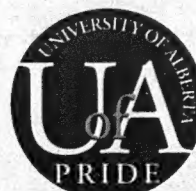
9:30 am to 4:00 pm

Business and Humanities Buildings

Talks are informal and last 50 minutes. Then it's question-and-answer time. Free admission. For more info: call 492-2325 or check our website at <http://www.ualberta.ca/~publicas/super.htm>

Show your pride in the University of Alberta by wearing our colors—green and gold—and a U of A Pride sticker during University Days!

Drop by the Office of Alumni Affairs, 450 Athabasca Hall or call 492-3224 for your U of A Pride sticker.



notices

Please send notices attention Folio 400 Athabasca Hall, University of Alberta, T6G 2E8 or e-mail publicaffairs@ualberta.ca. Notices should be received by 3 p.m. one week prior to publication.

TEACHING RESEARCH FUND APPLICATION DEADLINE

The deadline for receipt of applications to the EFF—University Teaching Research Fund is October 1997.

The primary purpose of this fund is to enhance the level and quality of teaching research and curricula development in the University.

Application forms are available from the Associate Vice-President (Academic) Office, 3-4 University Hall; phone 492-3836.

MATERIALS MANAGEMENT SCHOLARSHIP GIFT

The staff at Materials Management is proud to donate \$18,000 to the University fund-raising campaign. The success of the first annual trade show for the University community and their vendors can be credited to the entire staff at Materials Management. Their willingness to give extra time and take on additional responsibilities resulted in a significant donation back to the community. The staff has requested the funds be directed to a business scholarship.

sticks & stones

Thai artist explores the power of simple things

By Lee Elliott

Bits of string, smooth stones, twigs and scraps of shiny paper—it's the stuff of children's pockets.

For Thai artist Thavorn Ko-Udomvit, it's also the stuff of memory: an annual pilgrimage to worship ancestors, taking a rare trip by car through the teeming streets of Bangkok; the careful laying out of food to the dead, sticks and stones rattled to frighten unwanted spirits; scraps of gold and silver paper burnt in offering.

And because of their symbolic power, stones, twigs, paper and string are an integral part of his art, which explores the essence of culture and our connection with family, humanity and worlds beyond knowing.

"I get inspiration from the Chinese ritual," says Ko-Udomvit, whose father was Chinese. He explains a work from his Ritual series by pointing to the simple circle representing the food offering, the noisemakers, dark borders to represent the world of the dead and the strings that bind our world to theirs.

A second series, Fetish, expands his look at ritual to an examination of the objects themselves.

"Before my father died, I went to the hospital every day," says Ko-Udomvit. "In that hospital, they had a lot of books on Buddhism. I had nothing to do, so I read them."

The art those books inspired looked first at tiny buffalo, bird and pig charms, the stock in trade of Thai monasteries, which, says Ko-Udomvit, symbolize irrational beliefs that lead to a life of illusion. In one work, the tiny amulets hang in lifeless lines encased in strips of plastic.

He compared these amulets to natural objects. "These objects, such as small stones, a dry twig fallen to the ground, have evolved from nature, and can give an understanding of the cycle of nature, and the accurate understanding of nature is the object of Buddhism and an important factor in leading a happy and tranquil life," he says.

His work draws on traditions centuries old yet remains decidedly contemporary. Modern touches include photo silkscreen and concrete objects embedded between layers and on top of the work.

However, his insistence on using only handmade rice paper in his work reflects a timeless artistic tradition. "I see that the paper produced in the factory is lifeless and doesn't reflect any spirit," he says. And spirit, he believes, is the heart of art. "Sometimes if your technique is good, but it does not have any meaning or philosophy, it is just decoration."



folio back page

"Natural objects like stones, gravels, twigs and leaves carry the forms which are gradually shaped through the course of time and according to the law of nature, meantime, amulets and charms are chiefly constructed upon unexplained beliefs."

Printmakers meet across cultures

Thavorn Ko-Udomvit is artist-in-residence at the U of A until October 7 as part of a unique international symposium organized by the Department of Art and Design. Professor Liz Ingram says the Sightlines Symposium, Oct. 1 through 5, has already attracted more than 250 registrants from around the world. Printmaking symposia are held often, she says but, "This is probably the first one I've ever heard of that focuses not on technical workshops, but the kind of place we have and the role we play in history, politics and culture." The 32 guest speakers and panelists cross disciplines from art to political science, anthropology and feminist scholarship. A second artist-in-residence, Ryoji Ikeda of Japan will be on campus until August '98.

Thavorn Ko-Udomvit



THE ART

- Sightlines: International Invitational Exhibition of Contemporary Prints, Prince of Wales Armoury
- International Printmaking Cooperatives Exhibition, Prince of Wales Armoury
- Illuminations: Contemporary Prints from Poland, Latitude 53 Gallery
- Thai Spirit: Contemporary Prints from Thailand, Harcourt House Gallery
- Goya: Disasters of War, Edmonton Art Gallery
- Rites and Rituals: New Work by Thavorn Ko-Udomvit, Extension Centre Gallery
- Master Class: Celebrating 25 years of the University of Alberta's Graduate Printmaking Program, Fine Arts Building Gallery
- In Situ: Contemporary Canadian Prints, McMullen Gallery
- Print Study Centre: Rotating displays of prints from the U of A's collection
- Exhibition of Artists' Books: Bruce Peel Special Collections Library, U of A.

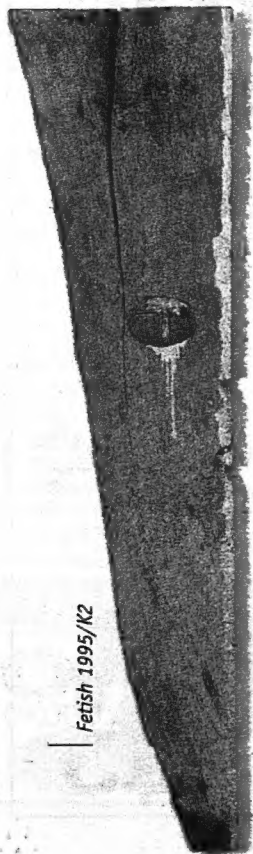
THE BOOK

U of A Press and the Department of Art and Design are publishing a full color, illustrated book on the conference which will be available from the University Bookstore October 1.

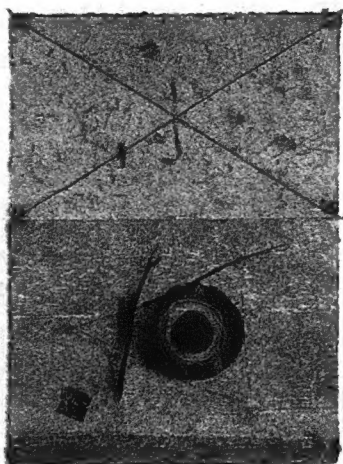
THE IDEAS

Political scientist Benjamin Barber will deliver the keynote address: "Art and Democracy in the Commercial World of McWorld," Friday, October 3, 7:30 p.m., Myer Horowitz Theatre. Tickets \$10 per person, students \$8, at Ticketmaster.

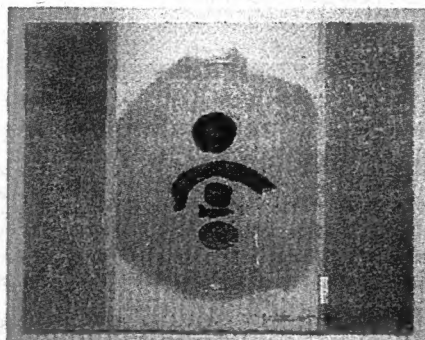
»» quick »» facts



Fetish 1995/K2



Symbols in Ritual 1992/5



Fetish 1996/4